

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	9,917	5,023 4 0	20,302 20	1,885 10 0	29 12 0	6,447 10 0	997	609	1,606
Or per mile of railway ...	173½	87 12 10	355 0	24 3 7	0 11 1	112 11 6	.....	.....	.....
For previous 4 weeks of half-year ...	39,213	19,332 3 0	1,53,006 10	9,397 8 0	153 0 0	25,882 11 0	3,742	2,126	5,868
Total for 5 weeks ...	49,130	24,354 7 0	1,73,308 30	10,783 2 0	192 12 0	35,330 5 0	4,739	2,735	7,474
COMPARISON.									
Total for corresponding week of previous year ...	13,788	8,178 10 0	36,420 0	2,347 2 0	69 0 0	10,594 12 0	1,084	675	1,759
Per mile of railway corresponding week of previous year ...	241	142 15 9	636 30	41 0 6	1 3 4	185 3 7	.....	.....	.....
Total to corresponding date of previous year ...	55,076	29,758 2 7	2,32,632 20	13,352 6 0	231 0 3	44,341 8 10	4,705	3,429	8,134

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 2ND AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	10,596	185	57½	6,448	113	57½	1,58,338	154	57½	1,03,944	136	4,006	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	17,026	4,276 12 0	4,707 0	123 0 0	7 8 0	4,437 4 0	983	45	968
Or per mile of railway ...	.....	192 3 5	.....	6 14 0	0 5 5	199 6 10	.....	.....	.....
For previous 4 weeks of half-year ...	72,066	17,563 3 0	16,457 20	568 15 0	29 2 0	18,161 4 0	3,377	209	3,586
Total for 5 weeks ...	89,112	21,839 15 0	21,164 20	741 15 0	36 10 0	22,618 8 0	4,300	254	4,554
COMPARISON.									
Total for corresponding week of previous year ...	15,200½	3,703 0 3	3,226 10	119 8 0	5 2 0	3,827 10 9	953	35	968
Per mile of railway corresponding week of previous year ...	.....	166 6 10	.....	5 5 11	0 3 9	172 0 6	.....	.....	.....
Total to corresponding date of previous year ...	95,400½	22,543 0 3	24,042 10	822 4 0	14 2 0	23,379 6 3	4,617	179	4,796

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 2ND AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,828	172	22½	4,437	199	22½	1,00,017	265	22½	1,07,946	270	1,929	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 26th July 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	131,510	55,940 0 0	5,28,270 0	1,27,810 0 0	15,610 0 0	1,30,360 0 0	22,870	35,101	57,971
Or per mile of the railway...	171	73 0 0	686 0	167 0 0	*2 0 0	343 0 0	.....	.....	.....
For previous 3 weeks of half-year	438,440	1,72,650 0 0	12,16,500 0	2,44,300 0 0	37,430 0 0	4,60,880 0 0	81,855	80,341	142,196
Total for 4 weeks	569,950	2,34,590 0 0	17,32,700 0	2,72,610 0 0	53,040 0 0	6,60,340 0 0	84,725	115,462	200,187
COMPARISON.									
Total for corresponding week of previous year	119,001	50,053 0 0	4,59,217 0	1,02,150 0 0	16,738 0 0	1,74,933 0 0	23,277	25,708	48,979
Per mile of railway corresponding period of previous year	159	75 0 0	615 0	137 0 0	*3 0 0	217 0 0	.....	.....	.....
Total to corresponding date of previous year	558,767	2,32,349 0 0	17,02,992 0	3,18,153 0 0	57,530 0 0	6,08,533 0 0	80,449	98,047	188,516

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
747	Rs. 1,74,933	Rs. 234	767	Rs. 1,99,360	Rs. 260	690	Rs. 27,43,974	Rs. 396	760	Rs. *29,78,555	Rs. 239	Rs. 2,14,561	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	25,480	9,340 0 0	31,870 0	2,220 0 0	60 0 0	11,020 0 0	3,611	2,059	5,670
Or per mile of railway...	204	75 0 0	256 0	18 0 0	.....	88 0 0	.....	.....	.....
For previous 3 weeks of half-year	81,912	37,600 0 0	1,05,700 0	6,780 0 0	400 0 0	38,680 0 0	9,818	5,387	15,403
Total for 4 weeks	107,392	36,940 0 0	1,37,570 0	8,000 0 0	400 0 0	46,900 0 0	13,426	7,643	21,072
COMPARISON.									
Total for corresponding week of previous year	23,771	8,593 0 0	25,738 0	2,415 0 0	63 0 0	11,071 0 0	3,336	2,051	5,386
Per mile of railway corresponding period of previous year	188	69 0 0	200 0	19 0 0	1 0 0	89 0 0	.....	.....	.....
Total to corresponding date of previous year	111,170	37,539 0 0	1,37,688 0	8,558 0 0	236 0 0	46,333 0 0	13,367	8,265	21,632

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
125	Rs. 11,071	Rs. 89	125	Rs. 11,020	Rs. 93	125	Rs. 2,26,170	Rs. 106	125	Rs. *2,11,310	Rs. 99	.....	Rs. 14,860

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	14,140	4,450 0 0	11,440 0	1,090 0 0	230 0 0	5,760 0 0	2,414	600	3,104
Or per mile of railway ...	164	52 0 0	133 0	12 0 0	3 0 0	67 0 0	.....	.....	.....
For previous 3 weeks of half-year ...	36,760	12,640 0 0	30,140 0	3,150 0 0	200 0 0	16,050 0 0	6,580	1,572	8,458
Total for 4 weeks ...	50,900	17,090 0 0	41,580 0	4,230 0 0	490 0 0	21,810 0 0	9,000	2,502	11,502
COMPARISON.									
Total for corresponding week of previous year ...	12,714	4,145 0 0	22,536 0	1,675 0 0	294 0 0	5,724 0 0	2,450	1,050	3,648
Per mile of railway corresponding period of previous year ...	149	48 0 0	262 0	13 0 0	6 0 0	67 0 0	.....	.....	.....
Total to corresponding date of previous year ...	53,321	16,171 0 0	70,134 0	3,095 0 0	1,208 0 0	20,474 0 0	9,860	3,100	12,735

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	5,724	67	86	5,760	67	86	94,753	65	86	*1,03,652	71	8,799	.....

* Audited up to week ending 31st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 26th July 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,020	1,100 0 0	8,340 0	470 0 0	10 0 0	1,580 0 0	510	400	910
Or per mile of railway ...	111	40 0 0	307 0	17 0 0	1 0 0	58 0 0	.....	.....	.....
For previous 3 weeks of half-year ...	9,280	3,200 0 0	44,280 0	2,360 0 0	30 0 0	5,690 0 0	1,510	1,219	2,729
Total for 4 weeks ...	12,300	4,300 0 0	52,610 0	2,830 0 0	40 0 0	7,200 0 0	2,020	1,619	3,639
COMPARISON.									
Total for corresponding week of previous year ...	2,639	1,107 0 0	8,172 0	528 0 0	97 0 0	1,732 0 0	586	240	624
Per mile of railway corresponding period of previous year ...	104	41 0 0	300 0	19 0 0	4 0 0	64 0 0	.....	.....	.....
Total to corresponding date of previous year ...	11,182	4,320 0 0	31,980 0	2,157 0 0	142 0 0	6,619 0 0	2,104	1,457	3,651

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,731	64	27½	1,580	65	27½	32,199	69	27½	*32,593	71	608	.....

* Audited up to week ending 31st May 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 26th July 1890, on 315 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the period on 315 miles open ...	37,821	Rs. 11,027	Mds. 1,01,447	Rs. 10,796	Rs. 1,673	Rs. 12,469	5,123	6,427	11,540
Or per mile of railway ...	120	37	322	34	5	78	...	...	...
For previous 3 weeks of half-year ...	99,570	34,164	3,06,483	30,423	6,807	79,484	18,440	18,050	31,409
Total for 3 weeks ...	1,37,391	45,791	4,97,930	50,219	7,570	1,03,580	18,571	24,677	43,048
COMPARISON.									
Total for corresponding period of previous year on 273 miles open	32,996	10,570	1,02,787	13,457	3,770	27,827	5,014	3,225	10,239
Per mile of railway corresponding week of previous year ...	121	39	396	49	5	95	...	...	...
Total to corresponding date of previous year ...	151,014	52,870	7,04,711	63,550	12,397	1,20,636	18,972	21,883	40,655

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

RECEIPTS FOR WEEK ENDING 27TH JULY 1889.			RECEIPTS FOR WEEK ENDING 26TH JULY 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 27TH JULY 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 26TH JULY 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	27,827	102	315	24,096	70	273	6,47,957	148	282*33	7,00,473	155	53,516	.....

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

	Rs.
Approximate earnings for week ending 19th July 1890...	6,450
Corresponding period of 1889 ...	8,605
Decrease ...	2,215
Rs. A. P.	
Receipts per mile for week ending 19th July 1890 ...	126 7 6
Corresponding period of 1889 ...	169 14 7
Decrease ...	43 7 1
Receipts from 1st to 19th July 1890 ...	22,373
Corresponding period of 1889 ...	21,821
Increase ...	552



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, AUGUST 20, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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LIBERALITY OF BABU OODIT NARAIN SINGH OF HANDWAH BHAGULPORE.

THE following correspondence is published for general information.

By order of the Lieutenant-Governor of Bengal,
H. J. S. COTTON,
Secretary to the Government of Bengal.

MUNPL. DEPT.,
The 12th August 1890.

No. 2 ^{R-T}/_M, dated Yacht Rhotas, the 12th August 1890.

From—H. J. S. COTTON, Esq., Secretary to the Government of Bengal, Municipal Department,
To—The Commissioner of the Bhagulpore Division.

I AM directed to acknowledge the receipt of your letter No. 1312G, dated 8th August 1890, and to request that you will communicate to Babu Oodit Narain Singh of Handwah the Lieutenant-Governor's high appreciation of his public spirit and liberality in subscribing Rs. 26,000 towards the completion of the Bhagulpore water-works and a further sum of Rs. 10,000 in aid of the Leper Asylum Fund.

2. A copy of the correspondence will be published in the *Calcutta Gazette*.

No. 1312G, dated Bhagulpore, the 8th August 1890.

From—C. G. QUINN, Esq., Offg. Commissioner of the Bhagulpore Division,
To—The Secretary to the Government of Bengal, Municipal Department.

I HAVE the honour to forward, for the information of the Lieutenant-Governor, a copy of a letter from Babu Oodit Narain Singh of Handwah, containing the munificent offer of Rs. 26,000 towards the completion of the Bhagulpore water-works and of a further sum of Rs. 10,000 in aid of the Leper Asylum Fund. I would suggest that the liberality and public spirit which Babu Oodit Narain Singh has displayed by this offer may receive the recognition of Government.

From—BABU OODIT NARAIN SINGH, Rajah of Handwah,
To—The Commissioner of the Bhagulpore Division.

I MOST humbly and respectfully beg to offer Rs. 26,000 towards the completion of the water-works at Bhagulpore and Rs. 10,000 towards a Leper Asylum in this town.

REPORT ON THE STATE OF THE SALT MARKET FOR THE FIRST QUARTER OF 1890-91.

No. 588B, dated Calcutta, the 12th August 1890.

From—K. G. GUPTA, Esq., Secretary to the Board of Revenue, L.P.,
To—The Secretary to the Government of Bengal, Financial Department.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the first quarter of 1890-91, comprising the months of April, May, and June 1890.

SALT.

SIR H. L. HARRISON, Kt.

2. The quantity of salt of every description cleared during the quarter under report amounted to 26,51,986 maunds 8 seers 5 chittacks, against 24,01,999 maunds 18 seers 6 chittacks in the previous quarter, and 24,03,784 maunds 35 seers 15 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 62,34,543-12, against Rs. 56,82,037-13 in the previous quarter, and Rs. 56,36,201-9 in the corresponding quarter of the previous year.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are shown in table I:—

TABLE I.

			Cuttack.		Pooree.		Balasore.	
			Mds.	s. t.	Mds.	s. t.	Mds.	s. t.
Balance at close of the last quarter		1,32,241	0 0	1,620	0 0
Manufactured or added during the quarter
Total		1,32,241	0 0	1,620	0 0
Sales during the quarter		46,247	0 0	50	0 0
Wastage		4,112	0 0	.....
Total		50,359	0 0	50	0 0
Balance at close of the quarter		81,882	0 0	1,570	0 0

4. The total sale of excise salt during the quarter under review amounted to 46,297 maunds, against 37,086 maunds in the previous quarter, and 16,270 maunds in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarter of the previous two years:—

TABLE II.

	1889-90.		1890-90.		1890-91.	
	1st quarter.		1st quarter.		1st quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Liverpool pungah	25,85,024	20,70,027	23,22,181	17,61,678	13,17,001	15,54,185
Foreign kurkutch	5,15,375	4,79,964	5,19,401	4,12,305	5,03,803	7,66,515
Indian ditto	.....	1,32,961	1,15,008	1,30,111	1,93,233	1,43,230*
Total	31,01,399	26,82,952	29,56,590	23,04,094	20,13,116	24,63,930

* Exclusive of 26,502 maunds of salt transhipped from Chittagong.

6. The following are the details of the Indian kurkutch salt shown in the above table :—

TABLE III.

	1888-89.		1889-90.		1890-91.	
	1st quarter.		1st quarter.		1st quarter.	
	Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bombay
Ooconada
Cuddalore
Gopalpore
Tuticorin
Madras
Total	...	1,33,951	1,15,008	1,80,111	1,95,233	1,43,239

7. Table IV shews the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters :—

TABLE IV.

WHERE STORED.	First quarter of 1889-90.	Second quarter of 1889-90.	Third quarter of 1889-90.	Fourth quarter of 1889-90.	First quarter of 1890-91.
	Mds.	Mds.	Mds.	Mds.	Mds.
Sulkea Government godowns	22,40,063	23,55,305	17,41,840	22,11,943	19,60,547
Chittagong ditto do.	1,53,597	1,42,880	67,587	2,21,033	99,605
Total	23,93,660	24,98,185	18,09,427	24,33,576	20,60,152

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review and the corresponding quarters of the previous two years, are shown in the table below :—

TABLE V.

PERIOD.	Via Balikhall.	Via Sankrail.	Via Gowakhal.	Via Kidderpore.	Via Ballinghat.	Via Rutherford Ghat.	By the East Indian Railway.	By the Eastern Bengal and South-Eastern Railways or via Chitpore.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
First quarter of 1888-89	1,47,781	1,85,097	51,418	81,277	2,81,859	6,709	11,34,184	3,84,512
Ditto of 1889-90	1,83,598	1,30,411	34,063	68,800	2,67,377	1,897	9,05,467	3,18,225
Ditto of 1890-91	1,55,714	1,17,096	32,625	1,09,880	1,73,164	1,597	9,60,983	4,26,221

9. The quantity of salt despatched by the East Indian Railway to stations beyond Buxar during the quarter under review amounted to 3,341 maunds 10 seers, as noted in the margin, against 2,733 maunds 30 seers in the previous quarter, and 2,430 maunds in the corresponding quarter of the previous year.

10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow :—

	Tons.
April	35,570
May	29,990
June	24,920
Total	90,480

11. Table VI shews the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI.

DESCRIPTION OF SALT.	Prices on the 15th April		Prices on the 30th April		Prices on the 15th May		Prices on the 31st May		Prices on the 15th June		Prices on the 30th June	
	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.	1889.	1890.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Liverpool pungah	85	92	90	90	88	85	91	90	88	90	94	82
French karkutch	61	...	61	...	61	...	61	...	61	...	61	...
Jedda ditto	62	55	55	55	62	56	56	56	62	53	54	52
Bombay ditto	92	90	82	79	76	54	75	54	79	50	70	47
Italian ditto	63	...	63	...	62	...	62	...	62	...	62	...
Muscat ditto	61	51	62	52	61	55	62	55	61	57	61	55
Rock	75	75	75	75	75	70	75	70	75	70	75	65

12. The following table shows the quantity of sea-imported salt admitted into bond and cleared from bond and shipboard at Chittagong and Narain-gunge during the quarter under review and the corresponding quarter of 1889-90:—

TABLE VII.

PORT.	DESCRIPTION OF SALT.	ADMITTED INTO BOND.		CLEARED.	
		First quarter of 1889-90.	First quarter of 1890-91.	First quarter of 1889-90.	First quarter of 1890-91.
		Mds. s. c.	Mds. s. c.	Mds. s. c.	Mds. s. c.
Chittagong	Liverpool pungah	6,320 0 0	.....	79,697 5 0	60,198 32 8
	Akyab	.....	.....	0 5 0	.....
	Cochin karkutch	.....	.....	0 5 5	.....
	Bremen	.....	.....	.....	7,180 0 0
Naraingunge	Liverpool pungah	.....	.....	15,147 0 0	47,025 0 0
	Total	6,320 0 0	.....	94,844 15 5	1,14,403 32 8

No transactions in sea-imported salt have been reported for the quarter from the ports of Cuttack, Pooree, and Balasore.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 16th August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
Western Districts.			
BURDWAN DIV.	1 Burdwan Aug. 16, '90	2.26	Weather—rainy and cloudy. Transplantation of <i>amun</i> going on. Prospects good. Prices of common rice —
	Culna ...	1.69	
	Cutwa ...	2.84	
	Ranigunge ...	4.48	
			Burdwan Srs. 14½
			Culna 14
			Cutwa 14½
			Ranigunge 16
	2 Bankura „ 16, '90	1.24	Weather—warm. Transplanting of <i>amun</i> rice finished and weeding going on vigorously. Sugarcane prospering. It is estimated that about 16 annas of the area under rice have been cultivated this year in the Bissenpore sub-division. Common rice selling at 19 seers per rupee at Sudder and 17 seers at Bissenpore.
	3 Birbhum „ 16, '90	1.21	Breaks of dry weather more frequent. Prospects of paddy very promising.
	Rampore Haut ...	4.93	Prices of rice range from 16 to 18 seers per rupee.
	4 Midnapur „ 16, '90	2.01	Weather—showery. More rain wanted in some parts. Paddy doing well. Transplantation still going on. Prices of common rice :—
			Sudder Srs. 15½
			Contai 15
			Ghatal 16
			Tumlook 14
	5 Hooghly „ 16, '90	1.49	Weather—seasonable. State and prospects of crops good. Prices of common rice :—
Serampore ...	2.67		
Jehanabad ...	4.18		
		Sudder Srs. 13	
		Serampore 16	
		Jehanabad 15	
Howrah „ 16, '90	3.60	Weather—seasonable. <i>Amu</i> , <i>amun</i> , jute, and sugarcane doing satisfactorily.	
Uluberia ...	3.65	Prospects good. Price of common rice 13 to 14 seers per rupee.	
Central Districts.			
PRESDENCY DIV.	6 24-Pergbs. Aug. 19, '90	2.27	Weather—hot and clear with occasional light showers. Prospects good. <i>Amu</i> and jute being cut. Transplantation of <i>amun</i> going on vigorously, but more rain wanted. Price of rice stationary.
	7 Nuddea „ 16, '90	2.55	Weather—seasonable. Crops on high lands continue good, but those on low lands swamped by floods. Rivers still rising.
	Kushtia ...	2.41	
	Meherpore ...	2.20	
	Chuadanga ...	4.26	
	Ranaghat ...	1.17	
	8 Khoolna „ 16, '90	1.30	Weather—seasonable. Prospects of crops continue favourable. Transplan- tation now going on rapidly.
	Bagirhat ...	1.92	
	Satkhira ...	2.63	
	9 Jessore „ 16, '90	6.85	Weather—hot and cloudy with occasional showers. Harvesting of <i>amun</i> going on. Partial damage to <i>amun</i> and <i>amun</i> crops done by early rise of rivers in parts of Jhenidah, Magura, and Bongong subdivisions.
	Jhenidah ...	2.23	
	Magura ...	4.71	
	Narail ...	4.49	
	Bongong ...	1.77	
	10 Moorshedabad „ 16, '90	3.24	Weather—fine with passing clouds. The gauge stood 30' 11½" last noon (15th), the highest rise ever on record. To-day (16th) there is a fall by 5 of an inch. Greater portion of <i>amun</i> submerged under water, and the outturn will, as it appears, be much less than usual. Some <i>amun</i> lands in the Lalbagh subdivision and greater portion of them in the Kandi subdivision have been overflooded, but transplantation will begin on the receding of the water.
	11 Dinagepur „ 16, '90	9.25	There has been a break in the rains, with hot and sultry weather, but to-day (16th) it is raining again. Harvesting of jute and <i>bhadai</i> paddy going on. Outturn of each crop may still be estimated at 18 annas. Prospects of <i>haimanti</i> paddy continue to be very favourable. It is expected that this crop will be transplanted over the full usual area, but only about 12 annas of the crop have as yet been transplanted. Price of rice unchanged.
	Thakurgaon ...	9.86	
12 Rajshahy „ 16, '90	0.16	Weather—seasonable and wet. Prospects of crops so far excellent. Ganges very high, and an inundation is feared.	
Natore ...	1.18		
Nowgong ...	1.22		
13 Rungpur „ 16, '90	0.08	Very little rain fell during the week, but the sky is now overcast. Rain is wanted for the young <i>amun</i> , the transplantation of which is hindered by the unusual drought. Jute is being cut and steeped. Owing to over produc- tion, prices of jute are low. Sugarcane promises well.	
Nilphamari ...	0.47		
Kurigram ...	0.18		
14 Bogra „ 16, '90	1.51	Weather—cloudy and showery, with short intervals of sunshine. Harvesting of <i>amun</i> going on with good outturn. <i>Amun</i> is still being transplanted.	
Sherpur ...	1.32	Jute is being cut and steeped. All prospects good. Common rice selling at 18½ seers per rupee. Rivers have fallen rapidly.	
Nowkhilla ...	1.33		
15 Pubna „ 16, '90	2.04	Weather—cool and cloudy. <i>Amu</i> partially damaged. Prospects of jute and <i>amun</i> continue favourable. Prices of rice have risen a little.	
16 Darjeeling „ 16, '90	3.13	Weather—fine. Jute crop in Terai being cut; estimated outturn 12 annas. <i>Bhadai</i> rice in ear.	
17 Julpigoree „ 16, '90	1.99	Weather—hot and cloudy with occasional showers. Transplantation of <i>haimanti</i> rice continues. Average outturn of <i>bhadai</i> rice reported to be 12 annas, and that of jute 10 annas. Prices stationary.	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
Eastern Districts.			
Dacca Divn.	18 Dacca Aug. 16, '90	0.98	Weather—seasonable. Jute and <i>aus</i> being harvested, but they have been damaged to some extent owing to high flood. Rivers falling slowly. <i>Aman</i> paddy thriving. Common rice being sold at from 13 to 15 seers per rupee.
	19 Farreedpur „ 16, '90	1.91	Weather—seasonable. The flood has gone down a little, and the harvesting of <i>aus</i> paddy and jute is in full progress, with an average outturn of 10 annas. <i>Aman</i> plants have been damaged to some extent by the high flood. Fodder is scarce. Price of common rice rising.
	20 Backergunge „ 16, '90	2.28	Weather—seasonable. State of standing crops generally good, but some damage has been done to <i>aman</i> seedlings by floods. Common rice selling at about 13 seers per rupee.
	21 Mymensingh „ 16, '90	1.60	Weather—cloudy with occasional rainfall. Jute has been injured by excessive rain and flood. Outturn of jute expected to be 14 annas, and that of <i>aus</i> paddy 18 annas. Common rice sells at 13 seers 9 chittacks per rupee.
Chittagong Divn.	22 Chittagong „ 16, '90	3.56	Weather—seasonable. <i>Aus</i> grown to the extent of 12 annas; prospects of this crop fair. Lands are being prepared for <i>aman</i> . Rice selling at 16 seers per rupee.
	23 Noakhali „ 16, '90	6.17	Weather—rainy and cloudy. <i>Aus</i> crop being harvested. Transplantation of <i>aman</i> continues. Prospects fair.
	24 Tipperah „ 16, '90	0.41	Weather—cloudy, hot and muggy. Jute and <i>aus</i> being cut. The recent floods have caused no serious damage to crops. Prospects very promising. Rice selling at from 12 seers 12½ chittacks to 21 seers 5½ chittacks per rupee.
	25 Chittagong Hill Tracts „ 15, '90	2.78	Weather—cloudy and rainy, with occasional sunshine throughout the week. Early <i>jum</i> paddy ripening. Cotton progressing. Transplanting of plough-paddy in low lands commenced. Common rice being sold at 12 seers 5 chittacks per rupee.
BEHAR.	Hill Tipperah „ 15, '90	2.48	Weather—sultry with occasional showers. <i>Aman</i> being transplanted. <i>Jum</i> paddy being reaped. No change in prices.
	26 Patna „ 16, '90	0.78	Weather—hot and sultry. Transplantation of paddy still going on. <i>Bhadoi</i> crops reported to have been damaged more or less all over the district owing to excessive rain and floods. Prices of food-grains almost stationary.
	Barh „ „	2.0	
	Behar „ „	1.08	
Patna Divn.	27 Gya „ 16, '90	1.74	Weather—hot and cloudy. Transplantation of paddy going on. Prospects of <i>bhadoi</i> not favourable. Sugarcane doing well. Prices of food-grains almost stationary.
	28 Shahabad „ 16, '90	1.89	Weather—hot and steamy. Some <i>bhadoi</i> in Sasseram and Bhabuah still left. Paddy prospects good on the whole; but if there be much more rain, paddy seedlings will be washed away too to a great extent. Prices stationary, and falling in Sasseram.
	Buxar „ „	2.11	
	Bhabuah „ „	3.60	
Bhagalpur Divn.	29 Durbhanga „ 16, '90	0.09	Weather—occasionally cloudy in the latter part of the week. A break in the rains for the last 8 days has done immense good to the <i>bhadoi</i> crops not injured by floods. <i>Aghani</i> rice is being replanted in places where it has been washed away by floods; elsewhere prospects continue very satisfactory. Prices remain stationary.
	Madhubani „ „	1.02	
	Sonastipur „ „	0.49	
	30 Mozufferpur „ 16, '90	0.08	Weather—hotter and drier than in the previous week. The prospects of the <i>bhadoi</i> and rice which have not suffered from floods are fair. The damage done by floods is considerable in some localities, but the general <i>bhadoi</i> outturn of the district promises to be better than expected during the recent bad weather.
Bhagalpur Divn.	Hajipur „ „	0.49	
	Sitamarhi „ „	0.42	
	31 Sarun „ 16, '90	1.10	Weather—finer and hot. <i>Bhadoi</i> crops practically all gone. Continued floods have destroyed nearly all the rice in the Sudder subdivision; elsewhere the rice promises a 12-anna crop. Indigo much damaged by floods.
	32 Champaran „ „	...	Report not received.
Bhagalpur Divn.	33 Monghyr „ 16, '90	0.58	Weather—hot and close. <i>Bhadoi</i> crops damaged owing to floods and excessive rainfall. Prospects of winter rice good.
	Begusarai „ „	0.79	
	Jamui „ „	2.02	
	34 Bhagalpur „ 16, '90	0.52	Weather—hot with a good deal of sun. Break in the rains beneficial. Some damage done to standing crops by inundation, but on the whole prospects of rice good.
Bhagalpur Divn.	Banka „ „	1.26	
	Mudhepura „ „	0.61	
	Scoopool „ „	0.73	
	35 Purnea „ 16, '90	2.04	Weather—bright and sunny. Break in the rains has done great good. <i>Bhadoi</i> harvest progressing. <i>Aghani</i> transplantation still going on. Indigo manufacture closed with fair results. Floods subsiding except in the south.
Bhagalpur Divn.	Kishengange „ „	0.37	
	Arrareah „ „	0.50	
	36 Maldah „ 16, '90	0.38	Weather—hot and bright with occasional showers. High east wind prevails. Harvesting of <i>bhadoi</i> continues. About 10 annas of this crop have been damaged by inundation. Transplantation of winter rice is being pushed on. Common rice selling at from 13 to 16 seers per rupee.
	Shibganje „ „	2.40	
Bhagalpur Divn.	Gajole „ „	0.50	
	37 Southal Perghe „ 16, '90	1.79	Weather—generally cloudy. Much less rain and more sunshine than last week. This will improve <i>janera</i> prospects. Transplantation of paddy nearly over. Prospect of this crop is very promising everywhere, and with seasonable rain about the end of September, a 16-anna outturn is anticipated; but the <i>janera</i> will not be more than 10 or 12 annas.
	Dooghur „ „	1.22	
	Godda „ „	1.73	
	Jamtara „ „	4.79	
Bhagalpur Divn.	Pakour „ „	1.67	
	Rajmahal „ „	1.91	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	38 Cuttack Aug. 16, '90	5.83	Weather—seasonable. Rain during the week has much benefited cultivation. Transplantation of <i>sarad</i> nearly over. Prospects of <i>baru beali</i> generally good.
	39 Poores „ 14, '90	3.74	Weather—seasonable. Transplanting and weeding of <i>sarad</i> crop going on. <i>Beali</i> in ear. State of miscellaneous crops good. Prices of common rice vary from 18 seers 8 chittacks to 21 seers per rupee in the Sudder subdivision and 21 seers per rupee in the Khoorda subdivision.
	40 Balasore „ 16, '90	3.25	Weather—seasonable. The <i>beali</i> crop suffered somewhat from want of rain last month. Prospects otherwise good. Number of coolies on relief-works 38.
CHOTA NAAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAAGPORE DIVN.	41 Hazaribagh Aug. 16, '90	1.99	Weather—seasonable. A break in the rains has set in. Transplanting of paddy about three quarters finished. Indian-corn poor; about 8 annas crop expected. All other crops doing well. Prices more or less stationary.
	42 Lohardugga „ 16, '90	1.59	Weather—warm and cloudy. Transplantation of winter rice still going on vigorously. Prospect of <i>bhadoi</i> continues favourable. <i>Goondli</i> is being out. Sugarcane in Palamow doing well. Prices steady.
	43 Palamow (up to 11th Aug.)	4.78	
	43 Singhbhum Aug. 16, '90	1.61	Weather—cool, but more rain badly wanted. Rice crop has suffered to the extent of two annas in Chybasa and its neighbourhood. Rain much wanted in these parts. From the remainder of the district seasonable rain reported, and condition of crops said to be favourable. Price of common rice ranges from 12 to 24 seers per rupee.
CHOTA NAAGPORE DIVN.	44 Manbhoom „ 16, '90	5.39	Weather—has been favourable to crops. Paddy transplanting is on the point of completion. Prospects generally fair so far. <i>Bhadoi</i> outturn in the Govindpore subdivision will be below the average.
	Govindpore ...	2.86	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 19th August, 1890.P. NOLAN,
Secy. to the Govt. of Bengal.

Meteorological Report of the Province of Bengal.

			STATION OBSERVATIONS.													
DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.									
		Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M., temperature.	
ORISSA.	Pooree	Pooree	29.633	29.645	—	Calm	302	80.7	15th Aug.	76.6	19th Aug.	87.8	79.0	83.3	—	81.5
	Gopalpore	Gopalpore	29.624	29.646	—0.02	SW	333	80.3	14th "	78.8	11th to 14th Aug.	86.9	79.7	83.8	—0.7	81.5
	False Point	False Point	29.617	29.630	—0.015	South-westerly	220	80.5	10th "	76.1	11th "	86.4	76.9	81.6	—1.3	81.1
	Outback	Outback	29.585	29.647	—0.06	WSW	70.7	80.9	9th "	76.3	11th & 14th Aug.	86.4	77.3	83.9	—1.0	82.1
	Balasore	Balasore	29.587	29.636	—0.043	SSW	133.9	80.4	18th "	75.7	18th "	86.3	77.3	81.6	—0.6	81.2
SOUTH-WEST BENGAL.	South-West Midnapore	Sanger Island	29.604	29.630	—0.026	South-westerly	331.9	80.3	10th "	77.0	11th "	87.3	79.0	83.3	—0.1	83.0
	Midnapore	Midnapore	29.673	29.634	—0.046	S	186.7	81.3	10th "	76.1	12th & 13th Aug.	86.9	77.3	83.3	—0.3	81.6
	24-Pargunnahs	Calcutta	29.606	29.633	—0.021	Variable	68	80.5	18th "	76.3	18th & 13th Aug.	85.9	77.2	81.6	—0.9	81.1
	Howrah	Burdwan	29.534	29.623	—0.083	E	86.0	80.1	10th & 18th Aug.	77.4	14th "	86.4	76.8	83.0	—0.4	81.3
	Hooghly	Bankura	29.526	29.594	—0.068	SW	86.0	80.6	10th "	75.1	11th "	86.6	77.5	83.6	+0.3	80.4
EAST BENGAL.	Berhampur	Berhampur	29.578	29.608	—0.03	South-easterly	64.0	80.3	10th "	76.9	12th "	87.1	77.5	82.3	—1.3	79.8
	Moorshedabad	Moorshedabad	29.585	29.633	—0.048	E & SSE	96.3	80.1	15th "	76.3	12th "	87.3	76.4	83.4	—0.5	80.3
	Nuddea	Krishnagar	29.577	29.625	—0.048	SSE	123.2	?	?	?	?	?	?	?	?	
	Jessore	Jessore	29.596	29.632	—0.036	South-easterly	71.3	80.7	15th "	76.4	12th "	87.3	78.6	83.9	—0.4	81.6
	Khoolna	Chittagong	29.611	29.701	—0.09	SSE	168	87.6	9, 10, 13 & 15th Aug.	73.0	9, 11 & 13 to 15 Aug.	87.4	73.1	79.8	+0.3	81.0
	Chittagong Hill Tracts	Demagiri	29.638	29.650	—0.012	SSE	108.0	80.3	10th Aug.	75.9	12th "	85.9	77.9	81.9	0	80.6
	Backergunge	Barisal	29.642	29.686	—0.044	SE	170.0	87.0	15th "	74.3	10 & 12 "	84.7	76.6	80.6	—0.3	80.9
	Noakhally	Noakhally	29.620	29.600	+0.02	Variable	111.0	80.5	10th & 16th Aug.	77.4	12th "	85.9	79.4	83.0	+0.7	81.3
	Faridkote	Faridkote	29.638	29.655	—0.017	SE	179.7	80.6	11th "	76.7	11th "	87.7	77.8	83.7	—0.3	81.3
	Dacca	Dacca	29.637	29.673	—0.036	SE	136.7	80.9	14th "	75.3	11 & 12 "	87.3	76.3	81.7	+0.3	80.3
NORTH BENGAL.	Comilla	Comilla	29.610	29.608	+0.002	SSE	131.9	80.7	14th "	76.0	10th "	86.8	77.8	83.4	+0.1	80.6
	Mymensingh	Mymensingh	29.676	29.630	+0.046	E	103.6	80.3	10th "	77.1	9th "	87.9	76.3	83.2	0	83.1
	Sogra	Sogra	29.605	29.623	—0.018	South-easterly	88.3	87.1	14th "	76.7	9th "	85.6	76.4	83.0	—0.6	80.6
	Pubna	Rampore Beau-leah.	29.645	29.635	+0.01	SE & SSE	164.9	87.6	11th & 18th Aug.	77.6	11 & 12 "	84.1	76.8	83.5	—0.3	83.0
	Rajshahye	Maldah	29.643	29.634	+0.009	ESE	74.0	81.5	16th "	75.9	12 "	86.4	76.6	84.0	+0.1	83.3
	Maldah	Dinapore	29.635	29.644	—0.009	E	129.0	80.6	15th "	75.1	12th "	89.7	79.9	84.8	+1.4	82.3
	Dinapore	Rungpore	29.642	29.605	+0.037	ESE	93.0	82.3	10th "	77.3	12th "	91.4	79.0	85.2	+2.5	83.3
	Rungpore	Jalpiore	29.673	29.600	+0.073	?	?	81.4	14th & 15th Aug.	76.1	11 & 12 "	89.5	77.4	83.5	+3.3	83.0
	Jalpiore	Cooh Behar	29.596	—	—0.006	ENR	49.9	80.6	10th "	86.1	11th "	86.3	87.0	81.8	+0.8	81.6
	Cooh Behar	Darjeeling Hill Tracts	29.602	29.638	—0.036	South-easterly	89.0	81.3	15th "	77.4	13th "	89.8	78.8	84.3	+1.1	83.6
SOUTH BENGAL.	Darjeeling	Purneah	29.617	29.597	+0.02	E & SSE	302.7	81.3	11th "	75.3	9th "	89.2	80.3	84.3	—	83.2
	Purneah	Mozufferpore	29.647	29.633	+0.014	ESE	141.9	80.9	11th "	77.5	12 & 13 "	89.6	76.6	84.3	+0.9	84.1
	Mozufferpore	Durbbunga	29.612	29.630	—0.018	ESE	178.5	82.3	11th "	75.9	9, & 11 to 14th Aug.	90.9	79.3	85.1	+1.3	84.1
	Durbbunga	Chumpra	29.601	29.593	+0.008	E	138.6	81.3	11th "	79.5	12th "	86.7	81.3	86.1	+1.3	83.6
	Chumpra	Shahabad	29.731	29.586	+0.145	Variable	124.4	80.8	11 & 13 "	78.0	13 & 14 "	87.8	79.9	83.8	+0.4	83.6
	Shahabad	Buxar	29.553	29.635	—0.082	E	180.5	80.9	12th "	77.3	9 & 13 "	85.1	78.2	83.3	—0.7	82.1
	Buxar	Arrah	29.613	29.610	+0.003	Variable	304.3	81.6	11th "	77.0	12th "	87.0	79.9	84.1	—0.1	83.6
	Arrah	Gya	29.610	29.600	+0.01	E	107.0	81.4	11 & 15 "	77.3	12th "	88.2	79.4	84.3	—0.1	82.1
	Gya	Patna	29.618	29.601	+0.017	E	197.8	81.4	11 & 13 "	79.3	13th "	89.5	80.3	84.9	+0.6	84.6
	Patna	South Bhagulpore	29.636	29.600	+0.036	South-easterly	99.0	80.3	15th "	76.5	12 & 13 "	88.1	79.4	83.6	+0.1	82.9
CHITTA GAON.	South Bhagulpore	Monghyr	29.619	29.615	+0.004	SE	113.0	80.1	10th "	75.8	12th "	87.3	77.4	82.3	—0.4	81.6
	Monghyr	Hasanabad	29.677	29.613	+0.064	Variable	312.4	84.4	14th "	71.3	11 & 13 "	82.4	73.0	77.2	—1.2	75.6
	Hasanabad	Lohardugga	29.647	29.613	+0.034	SW	136.3	83.0	10th "	69.4	14th "	81.8	70.5	79.3	—1.8	73.0
	Lohardugga	Manbhum	29.630	29.596	+0.034	WSW	67.4	83.0	15th "	71.7	11th "	87.0	75.3	81.1	—1.7	79.6
	Manbhum	Sibangar	29.566	29.741	—0.175	SSW	63.6	80.6	11 & 14 "	77.0	12th "	90.7	78.8	84.6	+1.8	80.0
ASAM.	Asam	Dhubi	29.567	29.604	—0.037	Variable	103.5	80.3	18th "	75.3	11 & 13 "	87.3	76.2	83.3	+1.0	81.6
	Dhubi	Silchar	29.593	29.608	—0.015	Calm	66.6	83.0	12th "	75.3	12 & 14 "	81.1	76.4	83.8	+1.4	80.0

* Mean of 6 days.

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last years. The humidity of the atmosphere is expressed at percentage, saturated air being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional station for the period in question during the past stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 15th of August 1890.

DISTRICT OBSERVATIONS.															Representative station.	District.	METEOROLOGICAL DIVISION.
Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.												
			Mean for district.	Normal mean.	Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.					
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.							
86	8.0	3.66		2.78		6.11			26.22		4.5	Pooree	Pooree	ORIGINAL.			
86	8.7	3.61										Gopalpore					
88	8.3	2.35										False Point					
79	7.7	3.50	3.41	2.34	4.94	5.43	-0.49	31.86	29.09	+2.77	5.4	4.4	Cuttack		Cuttack	SOUTH-WEST BENGAL.	
87	5.0	3.75	3.68	2.54	5.35	6.11	-0.76	30.61	30.10	+0.51	4.3	4.1	Balasore	Balasore			
87	8.7	4.10	3.10	2.15	5.67	7.19	-1.52	29.93	34.07	-4.14	4.7	4.3	Saugor Island	South-West Midnapore			
83	4.3	2.11	1.31	2.55	5.35	6.99	-4.64	31.59	31.31	+0.28	4.3	4.2	Midnapore	South 24-Pergunnahs			
90	7.4	2.34	2.83	3.02	5.33	6.03	-0.70	26.14	31.67	-5.53	4.3	5.0	Calcutta	24-Pergunnahs	SOUTH-WEST BENGAL.		
86	8.6	2.23	2.43	2.37	4.75	6.22	-1.47	42.31	28.26	+14.05	6.0	4.4	Burdwan	Howrah			
88	7.4	1.96	1.70	2.68	2.50	7.21	-4.81	35.35	23.63	+11.72	5.0	4.5	Bankura	Hooghly			
91	5.4	4.48	3.10	2.95	5.26	6.46	-1.20	40.24	31.45	+8.79	5.6	4.5	Raneegunge	West Burdwan			
91	9.8	2.24	2.46	2.33	5.35	6.10	-0.75	37.33	29.26	+8.07	2.7	4.5	Merhampore	Mooredabad	SOUTH-WEST BENGAL.		
7	8.7	2.50	2.56	2.33	5.09	5.97	-0.88	33.70	29.46	+4.24	4.6	4.6	Krishnaghar	Nuddea			
91	9.1	4.77	3.28	2.91	5.35	6.29	-1.04	34.51	33.29	+1.22	4.6	4.5	Jessore	Jessore			
88	4.9	3.57	4.02	5.39	8.09	14.03	-5.93	36.10	36.02	+0.08	4.0	3.9	Chittagong	Khoulina			
				4.73		8.87			40.97						EAST BENGAL.		
91	8.1	2.17	2.73	2.67	5.48	5.84	-0.36	47.24	40.93	+6.31	5.3	5.3	Demagiri	Chittagong Hill Tracts			
88	2.1	4.73	3.28	6.16	9.33	13.78	-5.40	61.93	60.14	+1.79	5.0	5.9	Barisal	Backergunge			
90	9.0	1.08		2.60		5.98			34.83				Noakholly	Noakholly			
69	9.6	0.73	1.33	3.00	5.37	6.96	-1.59	42.02	36.37	+5.65	5.3	4.8	Furzedpore	Furzedpore	NORTH BENGAL.		
87	4.6	0.89	1.41	2.70	3.91	5.60	-4.69	41.60	43.00	-1.40	5.4	4.9	Dacca	Dacca			
80	6.7	1.43	2.23	2.97	5.19	6.63	-1.40	40.43	42.20	-1.77	4.6	4.6	Commilla	Tipperah			
86	6.4	1.12	1.36	2.36	4.03	5.44	-0.91	36.73	35.08	+1.65	4.3	4.3	Mymensingh	Mymensingh			
92	6.8	0.77	1.51	2.78	2.94	5.18	-2.24	30.23	30.71	-0.48	6.0	4.4	Bogra	Bogra	NORTH BENGAL.		
88	8.4	0.99	0.83	2.37	3.14	5.67	-2.43	44.39	31.43	+12.96	5.0	4.6	Serajgunge	Pubna			
85	3.6	0.38	0.65	2.47	5.08	5.06	-0.98	30.06	22.31	+7.75	5.6	4.3	Rampore Beaulah	Rajshahy			
86	7.7	0.19	0.93	5.04	5.59	6.11	-0.52	42.38	35.84	+6.54	3.3	4.6	Maldah	Maldah			
83	1.9	nil	0.22	2.60	4.54	6.90	-1.36	50.06	48.79	+1.27	1.6	4.0	Dinapore	Dinapore	NORTH BENGAL.		
90	1.4	0.71	0.84	5.61	6.29	11.53	-5.24	54.81	71.29	-16.48	2.9	5.0	Rangpore	Rangpore			
94	5.1	3.13	3.20	7.08	9.94	15.02	-5.08	106.99	22.56	+84.43	5.0	5.5	Jalpigoree	Jalpigoree			
86	6.0	0.55	0.46	3.30	4.53	6.88	-3.03	40.29	35.14	+5.15	2.4	4.2	Cooch Behar	Cooch Behar			
83	4.4	0.61	0.53	2.68	4.37	5.81	-1.44	34.39	26.04	+8.35	3.0	3.0	Darjeeling	Darjeeling Hill Tracts	NORTH BENGAL.		
83	5.3	0.00	0.45	2.70	4.64	5.60	-0.92	39.63	36.48	+3.15	2.3	3.0	Purneah	Purneah			
81	5.1	nil	0.10	2.61	3.00	6.06	-3.60	42.70	28.29	+14.41	0.3	5.5	North Bhagulpore	North Bhagulpore			
85	3.3	1.10	0.48	2.62	6.31	5.34	+0.77	35.79	25.24	+10.55	1.0	2.5	Monuherpore	Monuherpore			
86	5.8	4.08											Durbhunga	Durbhunga	SOUTH BENGAL.		
88	5.3	2.24	3.35	2.70	6.03	6.08	-0.08	33.39	23.29	+10.10	5.0	3.0	Mothari	Chumbarum			
84	3.7	1.99											Chupra	Saran			
84	5.3	1.74	4.46	2.58	6.27	5.98	+0.29	37.34	25.21	+12.13	5.3	3.3	Dehree	Dehree			
83	7.1	0.78	1.30	2.48	4.71	5.49	-0.77	29.90	25.14	+4.76	4.0	3.4	Bhagulpore	Shahabad	SOUTH BENGAL.		
86	6.1	0.52	0.94	2.65	4.17	5.93	-1.76	35.88	26.23	+9.65	4.2	2.8	Gya	Gya			
85	5.6	5.79	2.21	2.43	6.39	5.69	+0.70	39.81	30.06	+9.75	4.5	4.5	Bankipore	Patna			
90	9.7	2.54	2.11	2.81	4.86	6.75	-1.89	35.11	29.77	+5.34	5.0	4.4	Bhagulpore	South Bhagulpore			
88	9.9	2.41	2.21	2.67	4.25	6.01	-0.80	30.07	20.03	+10.04	5.0	4.0	Doomke	Monghyr	CENTRAL NAGPUR.		
		3.64							22.24				Hasaribagh	Hasaribagh			
													Ranchi	Loharogga			
														Mautoom			
85	7.7	1.16	1.61	2.98	2.35	7.70	-5.35	24.10	22.83	-1.27	7.0	4.6	Chyebassa	Shigbassa	ASSAM.		
92	8.9	1.48											Simargar				
90	8.1	0.15											Dhubri	Assam			
80	9.3	5.07											Silchar				

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater. denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations are given the normal means 17 years. The means of the district are the numerical average of the rainfall returns received in the district, i.e., from the returns at the sub-divisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 15th of August 1890—contd.

[illegible]

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 15th of August 1890—concl

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rain-fall from 1st of May date.
			Saturday, 9th August.	Sunday, 10th August.	Monday, 11th August.	Tuesday, 12th August.	Wednesday, 13th August.	Thursday, 14th August.	Friday, 15th August.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—concluded.	Champeran...	Motihari	.....	.....	0'19	.....	.....	.....	.....	Nil	Nil	3'23	6'80	44'50	26
		Hettiah	.....	.....	0'19	.....	.....	.....	.....	1	0'19	3'77	6'51	40'00	26
		Bagaha	0'31	.....	.....	.....	0'01	.....	.....	2	0'32	3'64	6'49	40'79	26
SOUTH BENGAL	Baran	Burhura	0'03	.....	.....	.....	.....	.....	.....	1	0'03	5'68	?	39'08	26
		Gopalgunge	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	6'40	6'60	34'30	26
		Sawan	.....	.....	0'19	.....	.....	.....	.....	1	0'19	6'60	6'64	34'51	26
	Shahabad	Chuprah	.....	0'17	0'02	.....	.....	.....	.....	2	1'00	7'01	5'49	34'66	26
		Buxar	0'14	0'36	0'05	3'03	0'14	0'11	.....	6	3'06	6'08	6'36	32'60	26
		Dehree	0'53	0'23	.....	.....	2'04	0'37	.....	4	4'08	4'09	6'13	27'94	26
	Gya	Bahadur	0'03	0'48	.....	.....	0'60	.....	.....	4	3'00	4'09	6'40	27'30	26
		Bahadur	0'06	0'13	.....	.....	0'02	0'08	.....	5	2'70	5'18	6'09	26'09	26
		Rashtam	0'13	.....	0'03	1'00	0'73	0'16	0'24	6	2'00	6'34	6'50	34'13	26
	Patna	Mohania	.....	.....	.....	5'15	0'20	.....	.....	2	2'35	3'50	?	33'46	26
		Aurangabad	3'53	0'05	0'31	0'30	5'43	0'29	.....	6	10'53	12'19	6'49	34'27	26
		Gya	0'03	0'01	0'31	0'06	0'43	.....	.....	5	1'74	3'41	5'54	36'14	26
	Patna	Nowdah	.....	0'03	1'00	0'67	0'37	.....	0'07	6	2'56	4'24	5'20	30'99	26
		Jehanabad	0'03	.....	0'16	2'30	0'36	0'07	0'03	6	2'05	5'29	6'01	38'08	26
		Arwal	0'20	0'10	1'50	1'00	.....	.....	.....	4	3'20	4'40	?	38'03	26
CENTRAL NAGPUR.	Monghyr	Madanapur	0'70	.....	.....	0'10	0'10	0'23	.....	4	1'15	2'33	?	38'26	26
		Sherrghati	.....	0'50	0'03	.....	1'43	.....	.....	3	2'00	6'20	?	23'87	26
		Rajauli	.....	.....	.....	2'60	0'42	.....	.....	3	3'17	5'33	?	34'79	26
	Patna	Pakri Barawan	0'30	.....	.....	1'00	0'30	.....	.....	3	2'30	5'30	?	34'78	26
		Patna	.....	.....	0'15	0'30	0'11	0'23	.....	4	0'78	4'67	5'61	31'25	26
		Dumra	.....	.....	0'46	0'06	0'37	.....	.....	3	1'09	5'18	5'67	32'49	26
	Monghyr	Mohar	0'08	0'13	0'17	0'28	0'11	0'20	0'40	7	1'43	4'05	5'43	32'82	26
		Barh	0'60	.....	0'70	.....	.....	.....	.....	2	1'30	4'16	5'23	25'87	26
		Bacham	.....	.....	.....	0'57	0'25	0'37	0'25	4	1'34	4'66	?	42'04	26
	South Bhagalpore.	Hile	.....	.....	0'75	0'10	0'15	.....	0'23	4	1'29	4'26	?	34'03	26
		Bagoocera	0'07	.....	0'00	0'37	.....	.....	.....	3	0'63	2'79	5'39	34'30	26
		Monkhyr	0'35	.....	0'03	0'31	.....	.....	.....	3	0'68	3'18	5'73	34'01	26
	South Bhagalpore.	Jamul	0'08	.....	1'00	0'44	0'09	0'14	.....	5	1'34	3'13	5'43	44'27	26
		Gopri	.....	.....	.....	0'00	.....	.....	.....	1	0'00	8'69	?	51'04	26
		Shobhpura	0'27	.....	1'50	0'43	0'26	0'03	.....	5	3'28	9'88	?	30'71	26
CENTRAL NAGPUR.	South Bhagalpore.	Bhagalpore	0'06	.....	0'07	0'30	0'08	0'17	.....	5	0'57	7'41	6'00	38'47	26
		Banks	0'31	.....	0'00	0'30	0'18	0'20	.....	5	1'18	4'34	6'08	20'30	26
		Kalgang	0'05	.....	0'15	0'05	0'11	.....	.....	4	0'36	3'23	?	41'04	26
	South Bhagalpore.	Bangson	1'00	.....	.....	.....	.....	.....	.....	1	1'00	6'33	?	47'13	26
		Rajmehal	.....	.....	.....	0'23	.....	0'11	.....	2	0'34	5'21	4'22	31'30	26
		Godda	0'12	.....	.....	0'05	0'00	0'01	.....	4	1'73	4'40	5'60	35'00	26
	South Bhagalpore.	Pasour	0'03	.....	0'23	0'37	0'73	0'20	.....	5	1'65	6'02	4'67	40'31	26
		Nya Doomka	0'10	.....	0'73	2'35	0'64	0'13	.....	5	3'79	12'04	7'15	47'09	26
		Dugbur	0'03	.....	0'07	0'33	0'11	0'04	.....	5	1'08	3'08	6'18	33'88	26
	South Bhagalpore.	Jamtara	0'45	0'13	0'06	2'75	0'33	.....	0'27	6	4'78	6'18	5'97	44'00	26
		Mohagama	.....	.....	0'20	0'11	0'15	0'19	.....	4	0'71	4'53	?	?	26
		Nasirah	.....	0'23	0'20	.....	.....	.....	.....	2	0'61	8'34	?	50'01	26
CENTRAL NAGPUR.	Hazaribagh	Pachamba	0'13	.....	0'37	1'28	3'10	0'20	.....	5	4'07	6'48	6'83	42'39	26
		(Giridi)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
		Hazaribagh	0'36	0'06	1'11	0'32	0'33	0'06	.....	6	2'64	4'84	7'59	34'41	26
	Hazaribagh	Semtagurh	0'38	0'18	0'40	0'40	0'15	.....	.....	5	1'00	2'00	5'33	24'76	26
		Mahudi Hills	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
		Jhoomra Hills	0'30	1'40	0'10	1'00	1'00	.....	.....	5	4'40	7'50	7'53	42'10	26
	Hazaribagh	Barhi	.....	0'30	0'03	1'43	.....	0'44	.....	4	2'00	0'41	?	32'03	26
		Chitra	0'45	1'10	.....	.....	.....	3'02	.....	3	5'17	6'04	?	31'46	26
		Karagdeha	0'17	.....	2'20	1'04	1'75	0'03	0'03	6	5'24	7'01	?	41'65	26
	Lohardugga	Kamghar	.....	.....	.....	0'55	.....	.....	.....	1	0'55	7'08	?	29'11	26
		Lohardugga	0'71	0'23	.....	1'50	0'33	.....	.....	4	2'74	6'00	7'21	30'31	26
		Ranchi	0'54	0'48	0'31	0'13	0'34	0'03	.....	5	2'36	5'03	7'40	20'00	26
	Lohardugga	Palamow	2'23	0'36	0'34	0'35	0'35	.....	.....	5	4'01	6'75	6'03	33'03	26
		Silli	1'40	1'39	1'50	0'30	1'30	.....	.....	.....	.....	.....	.....	.....	26
		Ratamat	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
CENTRAL NAGPUR.	Singbhoom	Huseinabad	1'00	1'04	.....	3'41	0'50	.....	.....	.....	.....	.....	.....	.....	26
		Warwah	0'20	0'23	0'08	0'10	.....	.....	.....	.....	.....	.....	.....	.....	26
		Chyobasa	0'11	0'67	0'04	0'33	0'39	0'04	0'04	7	1'61	2'55	7'70	24'10	26
	Singbhoom	Chakradhar	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
		Chakradhar	0'50	0'55	.....	0'25	.....	.....	.....	.....	.....	.....	.....	.....	26
		Baharagura	0'11	1'09	0'46	0'63	.....	0'10	0'40	.....	.....	.....	.....	.....	26
	Manbhoom	Purulia	0'03	0'15	3'45	1'53	0'13	0'12	.....	6	5'00	6'14	7'00	33'00	26
		Gobindpore	0'04	.....	0'31	0'78	0'75	0'03	.....	5	1'00	3'13	6'03	25'30	26
		Magnuma	.....	1'50	1'40	4'15	.....	.....	.....	3	7'05	10'13	?	46'33	26
	Manbhoom	Barra	.....	.....	0'00	0'13	0'12	0'00	.....	4	1'34	1'39	?	31'58	26
		Jhalda	2'52	0'37	1'02	2'22	1'45	.....	.....	5	8'41	10'03	?	40'04	26
		Chas	1'67	0'13	2'00	0'10	0'13	0'31	.....	6	3'23	6'00	?	34'74	26

Explanation.—.....indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 19th August 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
15TH OF AUGUST 1890.**

WEATHER conditions during the past week have remained settled throughout, and the only noticeable features are—

1. A very shallow depression formed in the north-west corner of the Bay about the beginning of the week, and though wind velocity hardly increased, it was accompanied by a very local cyclonic circulation of winds, and seems to have had considerable influence on the rainfall distribution.

2. Pressure has generally been slightly below the normal, the deficient distribution being due to the passage of the low-pressure area over the province.

3. Temperature has been above the normal in North Bengal, Behar, and Assam, normal in East Bengal, and below elsewhere.

4. Rainfall has been very deficient in North Bengal and North Behar, considerably below the normal in East Bengal, slightly below in South-West Bengal and South Behar, and above in Orissa and Chutia Nagpur.

At the commencement of the week pressure distribution was very nearly normal, and a steady slow fall was general, the changes being above a twentieth of an inch in the north-east corner of the Bay. The normal circulation of winds prevailed, except that easterly winds were blowing over the whole of South-West Bengal and Chutia Nagpur. This shewed that the current of air was being deflected more to the west than usual, and to this may be due the fact that for the greater part of the week very little rain has fallen at the northern stations. On the 10th a brisk fall of pressure occurred in the north-west corner of the Bay, and though defect of rather more than a twentieth of an inch was general over the northern half of the Bay, and a smaller defect over Bengal, a cyclonic circulation of winds obtained in Lower Bengal. General rain was falling in Orissa and East Bengal and some of the central districts, but elsewhere only scattered showers were being reported. On the 11th the shallow depression was over the centre of Bengal, and westerly winds had commenced in the south-western districts, while rainfall had become much more general in all districts. After this the low pressure area slowly drifted in a westerly direction, being over parts of Chutia Nagpur, South Behar, and South-West Bengal on the 12th, over Chutia Nagpur and South Behar on the 13th, in the North-Western Provinces on the 14th. Rain continued to fall at all stations in Orissa till the 12th, in South-West and East Bengal, Chutia Nagpur, and South Behar till the 13th, but in North Bengal and North Behar the 11th was the only day of the week on which fairly general rain was received, except in Pubna, Bogra, Rajshahye, and Maldah, where the distribution was similar to that in the southern districts.

Pressure—Has generally been below the normal in consequence of the low pressure area within which defect was a little over a twentieth of an inch, having moved first from the head of the Bay into Central Bengal, and thence in a westerly direction over Chutia Nagpur and South Behar. Defect in mean pressure is therefore greatest in South-West Bengal, Chutia Nagpur, and South Behar, where it averages $\cdot 03$ inch, while in the other districts it is smaller and rarely over $\cdot 01$ inch.

Temperature—Changes have generally been small, and the differences from the normal very slight in South Behar and East Bengal. There has been a small excess in North Bengal and North Behar throughout the week, and a similarly steady defect in Orissa and Chutia Nagpur. A steady rise was fairly general in the northern districts on the 9th and 10th; but as rainfall extended over the province, a fall occurred in all districts on the 11th and 12th, after which a slow rise prevailed, first in the eastern districts, and then over the whole province, till the end of the week. Mean excess amounts to $1\cdot 5^{\circ}$ in Assam, $1\cdot 3^{\circ}$ in North Behar, and $\cdot 9^{\circ}$ in North Bengal, while defect is $1\cdot 5^{\circ}$ in Chutia Nagpur and $\cdot 9^{\circ}$ in Orissa.

Rainfall—Has been general in Lower Bengal during the greater part of the week, and very scattered in the northern districts. The average fall in Orissa is $\cdot 7$ inch above the normal and in Chutia Nagpur $\cdot 4$ inch, and though falls in the other districts have been all deficient, the difference from the normal is small in South-West Bengal and South Behar. The falls in East Bengal, North Bengal, and North Behar are, however, considerably below the normal, as shown by the following numbers which give the percentage of the normal fall for the week:—North Bengal 27, North Behar 14, East Bengal 62.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 15th of August 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.								RAINFALL.							
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st month.		Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	80.9	75.1	86.9	78.0	82.5	-0.9	3.21	2.53	+0.68	4.8	4.3	+0.5	5.11	5.88	31.23	29.02
South-West Bengal ...	81.3	73.1	87.5	78.1	82.8	-0.5	2.03	2.91	-0.26	4.7	4.6	+0.1	4.96	6.53	35.50	31.39
East Bengal	80.6	74.8	86.5	76.8	81.7	0	2.33	3.70	-1.43	5.0	5.2	-0.2	5.53	5.83	46.79	47.67
North Bengal	82.8	70.1	88.5	78.6	83.7	+0.8	0.88	3.25	-2.37	5.5	4.6	-1.1	4.83	6.87	46.84	43.90
North Bihar	82.3	77.4	89.7	79.7	84.7	+1.3	0.42	2.99	-2.57	5.0	5.8	-1.8	4.73	6.15	40.51	29.67
South Bihar	81.4	75.8	88.3	79.1	83.7	0	2.41	2.57	-0.16	4.6	5.5	+1.1	5.00	5.84	35.62	30.23
Chutia Nagpur	84.4	69.4	92.1	71.3	76.7	-1.3	3.17	2.81	+0.36	5.3	4.3	+1.1	5.37	6.39	32.05	29.75
Assam	83.6	75.3	89.7	78.1	82.9	+1.5										

* Chyebassa not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 19th August 1890.

O. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 10th to 16th August 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
August	10th	Inches. 29.582	83.0	90.0	12.2	77.8	82.6	79.5	2.68	78.8	87	
"	11th	" 29.620	84.7	94.0	6.7	77.3	80.4	78.5	2.61	77.7	91	0.20
"	12th	" 29.609	81.4	85.0	9.1	76.6	80.6	78.5	2.49	77.6	91	1.35
"	13th	" 29.611	82.9	89.0	12.2	76.8	85.6	81.5	1.022	79.9	85	0.02
"	14th	" 29.652	84.4	90.0	11.2	78.8	84.6	81.5	1.036	80.3	87	0.04
"	15th	" 29.678	84.2	90.0	11.7	78.3	84.2	81.5	1.066	78.8	74	0.06
"	16th	" 29.700	85.1	91.0	11.8	79.2	86.2	82.5	1.085	80.3	77	

The mean 10 A.M. pressure of the seven days Inches. 29.633

The mean temperature of the seven days 83.2

The extreme variation of temperature 14.2

The maximum temperature 91.0

The mean 10 A.M. relative humidity of the seven days % 85

The total fall of rain from 10th to 16th August 1890 Inches. 2.27

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;
The 18th August 1890.

Results of the Meteorological Observations taken at the Alipore Observatory from 10th to 16th August 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 3 1/2 Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
1890.		°		Inches.	°	°	°	°	°	Inches	°	%			Inches.	
Aug.	10th	145.5	3.0	29.533	82.2	87.0	9.8	77.4	79.3	0.983	78.1	87	E, calm and variable	68	0.36	Chiefly cloudy, o, d, t, p.
"	11th	118.1	Nil	568	80.5	81.7	4.5	77.2	78.4	946	77.5	91	SW, SSW and calm	78	0.17	Cloudy, o, g, d, p.
"	12th	137.3	"	555	79.9	82.7	6.6	76.1	78.0	937	77.8	92	SSW, SW and variable.	103	1.70	Cloudy, o, g, d, p.
"	13th	155.5	4.5	564	82.0	87.6	11.6	76.0	79.5	974	78.4	89	SSE and calm	27	0.10	Chiefly cloudy, o, p.
"	14th	154.0	6.0	590	82.9	88.5	10.2	78.3	80.0	984	78.7	87	SE by S, SSE and calm.	54	0.01	Partially cloudy, d, t.
"	15th	144.3	6.4	632	83.7	87.7	10.3	77.4	80.0	978	78.6	85	SSW, S and calm	71	Nil	Partially cloudy.
"	16th	161.5	10.3	652	84.6	88.6	9.7	78.9	80.5	986	78.9	83	SSW and S	137	"	Partially cloudy.

The mean pressure of the seven days ... 29.585

The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.590

The total number of hours of bright sunshine ... 31.1

The maximum possible number of hours of sunshine ... 90.4

The mean temperature of the seven days ... 82.3

The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 83.1

The extreme variation of temperature ... 12.6

The maximum temperature ... 88.6

The highest velocity of the wind in one hour ... 13

The highest pressure of wind on one square foot ... Not measurable.

The mean relative humidity ... 88

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 86

The total fall of rain from 10th to 16th August 1890 ... 2.34

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 3.85

The total fall from 1st January to 16th August 1890 ... 36.59

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 42.29

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; t, thunder; p, passing temporary showers.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;

Calcutta, the 18th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 2nd August 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 2nd August 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 15.3 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 6.6 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	21.7	21.5	23.6	19.4	19.2	21.9	15.3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.		12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.
Burdwan	13.7	30.5	12.2	12.7	Narainganj	20.7	16.6	29.0	24.9
Midnapore	23.2	29.4	7.7	15.3	Chittagong	20.2	4.7	14.1	4.7
Hughli and Chinsurah	18.1	32.8	23.0	14.8	Comillah	3.8	7.7	15.4	15.4
Rampur	13.7	31.4	24.6	27.5	Patna City	11.4	11.4	12.7	14.9
Uttarpara		25.3	18.9	18.9	Gya	25.4	20.0	32.5	17.8
Howrah	17.3	14.3	15.5	17.8	Arrah	23.9	17.9	19.1	13.2
Bah	28.1	8.5	14.0	10.5	Muzaffarpore	14.2	15.8	13.4	14.6
Krishnagar	17.0	15.1	11.4	6.7	Dushhanga	2.8	18.9	27.5	10.7
Ranaghat	18.0	12.0	12.0	6.0	Chupra	12.1	20.1	11.1	8.0
Santipore	10.5	19.3	10.5	14.0	Bhawalpore	10.9	25.8	18.1	18.1
Jessore	6.1	18.4	4.1	14.4	Monghyr	24.9	33.4	41.6	28.5
Rampore Beaulah	18.4	24.6	18.4	31.5	Purneah	3.5	6.9	20.8	10.4
Darjiling	37.0	22.3	22.2	7.4	Poori	14.7	10.5	18.9	6.3
Dacca	9.7	15.0	9.7	11.0					
					Total	18.2	19.1	18.2	15.3

It will be seen that last week the highest birth-rate was returned from Rampore Beaulah (31.5), and the lowest from Chittagong (4.7).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 19.2 per 1,000 of the population. The rate of the week is 13.6 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	44.1	26.2	40.3	22.5	20.0	29.8	19.2

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

TOWNS.	WEEKS ENDING—				TOWNS.	WEEKS ENDING—			
	12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.		12th July 1890.	19th July 1890.	26th July 1890.	2nd August 1890.
Burdwan	22.9	19.8	27.5	19.8	Narainganj	24.5	16.0	16.6	16.6
Midnapore	23.2	35.6	37.0	7.7	Chittagong	39.0	14.8	14.8	11.7
Hughli and Chinsurah	21.5	18.7	24.6	26.3	Comillah	30.9	20.9	25.5	20.9
Rampur	22.4	46.1	34.3	51.0	Patna City	14.9	14.4	14.4	13.0
Uttarpara	18.9	56.6	47.8	37.7	Gya	32.1	32.1	37.0	44.6
Howrah	11.5	16.0	13.7	10.9	Arrah	33.9	23.9	30.5	6.4
Bah	3.5	7.0	21.1	14.0	Muzaffarpore	31.6	20.2	22.8	15.8
Krishnagar	3.8	3.8	11.4	5.7	Dushhanga	23.6	32.3	25.2	16.5
Ranaghat	18.0	24.0	12.0	24.0	Chupra	21.1	10.1	14.1	11.1
Santipore	8.5	17.5	10.5	17.5	Bhawalpore	15.4	10.0	22.4	14.5
Jessore	30.6	42.4	12.5	12.5	Monghyr	25.3	26.2	22.3	10.4
Rampore Beaulah	10.5	8.2	23.6	12.4	Purneah	13.0	10.4	10.4	13.9
Darjiling	22.2	37.0	32.3	38.9	Poori	65.0	44.1	32.7	32.6
Dacca	15.6	23.4	15.6	27.3					
					Total	31.4	22.0	23.1	19.2

It will be seen that last week the highest mortality occurred in the town of Darjiling (88·9), and the lowest in Krishnagar (5·7).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows :—

<i>Cholera.</i>			<i>Fever.</i>			<i>Other causes.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Santipore	...	10·5	Darjiling	...	44·5	Gya	...	21·2
Arrah	...	4·8	Comillah	...	23·1	Serampore	...	17·7
Chupra	...	4·0				Poori	...	16·9
Dacca	...	3·9				Dacca	...	11·7
Durbhanga	...	3·9				Hughli and Chinsurah	...	11·6
Gya	...	2·7						
Patna City	...	2·6						

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 2·1 from cholera, against 3·3 per 1,000 in the preceding week; ·04 from small-pox, against ·1; 7·4 from fever, against 10·2; 2·4 from bowel-complaints, against the same ratio; ·8 from injury, against ·9; and 6·4 from other causes, against 6·2 in the preceding week.

The mortality of last week according to *Sex*, *Class* and *Age* was as follows:—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	21·0	Christians	...	44·8	Under 1 year	...	169·8
Females	...	17·3	Hindus	...	19·1	1 and under 5 years	...	26·9
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	...	121	Mahomedans	...	19·1	5 " 10 "	...	11·3
						10 " 15 "	...	10·3
						15 " 20 "	...	8·4
						20 " 30 "	...	11·1
						30 " 40 "	...	13·1
						40 " 50 "	...	15·4
						50 " 60 "	...	16·8
						60 years and upwards	...	46·7

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 18th August 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 2nd August 1890.

1	2	3	4	5	6	7	8	9	10	11	12																				
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.		BIRTHS.				MORTALITY ACCORDING TO—																							
		Males.	Females.	Total.	NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male births to every 100 female births.	DISEASE.							Ratio of deaths per 1,000 of population per annum in the previous week.	SEX.													
					Males.	Females.	Total.			DEATHS FROM—						RATIO PER 1,000 OF POPULATION PER ANNUM.		DEATHS.	Males.	Females.	Ratio of male deaths to every 100 female deaths, calculated on the proportion which mortality bears to the total male and female population.										
										Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.							All causes.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.		
Burdwan	Burdwan	18,683	16,017	34,699	7	2	9	10.7	3.0	12.7	350			7	1	1	4	12			10.7	1.5	1.5	6.1	19.8	27.5	7	6	20.2	19.8	103
Midnapore	Midnapore	16,987	16,633	33,620	4	6	10	6.2	9.2	15.4	60			2	1		2	5			3.1	1.5		3.1	7.7	17.9	2	3	6.1	9.4	65
Hughli	Hughli and Chinsurah.	15,838	15,839	31,677	6	3	9	9.8	4.9	14.8	200			7	1	1	7	16			11.5	1.6	1.6	11.5	26.3	24.6	11	5	36.1	16.4	230
Serampore	Serampore	18,559	12,637	31,196	12	3	14	33.6	8.9	27.5	600	2		10	5		9	36	3.9		19.6	9.8		17.7	51.0	39.3	17	9	65.2	36.3	180
	Utterpara	2,446	2,444	4,890		2	2		18.9	18.9	No male birth.					1		3	4				9.4		25.3	37.7	47.3	2	2	34.1	43.2	81
Howrah	Howrah	53,153	37,000	90,153	19	12	31	10.9	6.9	17.8	183			7	5	2	5	19			4.0	2.9	1.1	2.9	10.9	13.7	9	10	5.3	13.8	64
	Bali	7,536	6,979	14,515	2	1	3	7.6	3.6	10.5	260			2	1		1	4			7.0	3.5		3.5	14.0	21.1	4		26.6		No female death.
Nuddea	Krishnasar	12,263	14,214	26,477	2	1	3	3.8	1.9	5.7	220			2		1		3			3.8		1.9		5.7	11.4	1	2	3.9	7.3	53
	Ranaghat	4,038	4,634	8,672		1	1		6.0	6.0	No male birth.			1	1		2	4			6.0	6.0		12.0	24.0	12.0	3	1	38.7	11.2	345
	Santipore	12,769	15,979	28,748	6	2	8	10.5	3.5	14.0	300	6		2	1	1		10	10.5		3.5	1.7	1.7		17.5	15.8	2	7	11.4	22.6	80
Jessore	Jessore	4,830	3,665	8,495	1	2	3	6.1	12.2	18.4	50			1	1			2			6.1	6.1			12.2	12.2	1	1	10.8	14.2	76
Rajshahye	Rampore Raniach	10,764	9,025	19,789	3	9	12	7.9	23.6	31.5	33			4	1		1	6			10.5	2.5		2.5	15.8	23.6	4	2	19.3	11.5	167
Darjiling	Darjiling	4,579	2,439	7,018	1		1	7.4		7.4	No female birth.			6	3		3	12			44.5	22.2		22.2	38.9	22.1	6	6	68.1	137.9	53
Dacca	Dacca	63,782	37,379	101,161	6	11	17	3.9	7.1	11.0	51	6	1	13	3	1	18	49	3.9	8	6.4	1.9	8	11.7	37.9	15.0	23	19	28.0	26.4	106
	Narainganj	7,608	4,956	12,564	2	4	6	8.3	16.5	24.8	80			2			2	4			8.3			8.3	16.5	16.5	2	2	13.7	21.0	65
Chittagong	Chittagong	12,340	8,799	21,139	1	1	2	8.3	2.3	4.7	100			3	1		1	5			7.0	2.3		2.3	11.7	18.8	4	1	14.6	8.9	264
Tipperah	Cumilla	5,153	3,853	9,006	2	2	4	7.7	7.7	15.4	100			6			1	7			23.1			3.8	36.9	36.5	5	2	31.9	19.4	164
Patna	Patna City	76,762	61,476	138,238	29	17	46	9.4	5.5	14.9	176	9		11	7	3	11	40	2.6		3.5	3.3	1.0	3.5	12.0	18.5	24	16	18.8	10.2	154
Gya	Gya	38,390	37,531	75,921	13	13	26	8.9	8.9	17.8	100	4		24	5	1	31	65	2.7		16.4	2.4	7	21.5	44.4	37.6	41	24	55.7	33.0	103
Shahabad	Arrah	20,960	22,505	43,465	6	5	11	7.3	6.0	13.3	120	4		1	1		1	7	4.8		1.2	1.2		1.2	3.4	29.5	2	5	5.0	11.6	43
Monsiehpore	Monsiehpore	13,034	19,059	32,093	9	3	12	10.9	5.6	16.5	200	3		4	1	1	4	12	3.6		4.9	1.2	1.2	4.9	15.8	32.8	9	4	20.3	10.6	191
Durbhanga	Durbhanga	33,774	32,322	66,096	12	13	25	9.4	10.2	19.7	92	5		8	3		5	21	3.9		6.3	2.4		3.9	16.5	25.2	9	12	13.9	19.3	72
Baran	Ohupra	25,116	24,554	49,670	2	4	6	2.0	4.0	6.0	50	4		1		2	4	11	4.0		1.0		3.0	4.0	11.1	15.1	6	5	12.4	9.6	136
Bhagulpore	Bhagulpore	29,640	27,513	57,153	11	9	20	10.0	8.1	18.1	122			10	1		5	16			9.1	...		4.5	14.5	22.8	7	9	12.3	16.8	73
Monghyr	Monghyr	23,154	29,366	52,520	11	15	26	9.9	13.6	23.5	73	1		9	1	2	4	17	...		8.1	...	1.6	3.6	15.4	25.3	7	10	12.9	17.7	73
Purneah	Purneah	5,463	6,553	12,016	2	1	3	6.9	3.5	10.4	200			3	1			4			10.4	3.5			12.9	10.4	1	3	6.1	23.8	26
Poori	Poori	12,547	11,637	24,184	3		3	6.3		6.3	No female birth.			5	3		8	16			10.5	6.3		16.8	33.6	25.7	12	4	47.1	19.0	261
Total	Total	550,064	510,568	1,060,632	172	141	313	8.4	6.9	15.3	123	43	1	181	49	16	133	392	2.1	7.4	2.4	8	6.4	19.9	36.1	222	170	21.0	17.3	121	

		13		14		15		16																							
		MORTALITY ACCORDING TO--																													
		Class.										Age.																			
DISTRICTS.	NAMES OF MUNICIPALITIES.	DEATHS AMONG--					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.					RATIO PER 1,000 OF POPULATION PER ANNUM.														
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.
Burdwan	Burdwan	...	11	2	...	...	24.3	10.1	...	...	3	...	1	1	...	1	1	2	2	2	236.4	...	23.3	20.7	...	6.6	7.5	23.6	43.4	70.2
Midnapore	Midnapore	...	5	...	...	...	10.0	...	...	...	...	...	...	...	...	2	...	1	2	...	...	...	...	...	...	...	...	...	25.2	36.3
Hughli	Hughli and Chinsurah	...	15	1	30.9	8.4	3	2	3	3	3	...	2	194.3	46.9	25.1	27.3	37.4	...	50.2
Serampore	Serampore	1	23	2	163.1	47.4	110.9	2	4	2	1	...	6	3	1	1	6	146.5	115.2	41.4	23.4	...	57.9	31.4	15.4	27.2	224.3
	Utterpara	...	4	...	...	...	39.1	...	...	...	1	1	2	...	...	...	...	...	...	...	323.0	123.6	111.6	...	...	...	...	...	...	...
Howrah	Howrah	...	10	9	...	...	7.6	22.8	...	...	4	2	4	...	1	3	...	3	...	...	100.8	18.8	33.1	...	7.1	4.6	...	22.1	...	...
	Balli	...	3	1	...	...	11.6	30.7	...	...	1	1	...	...	...	1	...	1	...	...	143.6	52.1	...	...	...	...	15.6	...	40.6	...
Huddon	Krishnagar	...	3	8.4	1	1	1	...	104.8	12.1	30.2
	Ranaghat	...	4	...	...	...	26.4	...	...	...	1	...	1	1	...	...	...	...	...	1	251.2	...	46.6	59.9	...	...	...	...	...	91.4
	Santipore	...	9	1	...	...	22.6	5.3	...	...	1	2	1	2	1	1	1	...	1	...	61.3	35.9	13.8	35.9	23.4	10.6	12.0	...	22.6	...
Jessore	Jessore	...	2	...	...	...	23.1	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	75.2	...	...	...	...	115.3
Rajahmabye	Rampore Beaulah	...	3	3	...	...	15.7	15.9	...	...	1	...	2	...	...	1	1	...	1	...	128.1	...	50.0	...	...	12.3	14.4	...	41.9	...
Darjiling	Darjiling	...	4	7	1	...	1,300.0	79.2	85.0	4	1	3	1	2	1	333.6	85.9	79.0	36.3	100.3	213.1	...
Dacca	Dacca	...	19	24	...	...	23.2	31.7	...	...	7	4	1	1	2	10	5	6	1	6	191.3	26.2	6.2	6.6	14.3	23.9	22.3	31.0	11.0	86.0
	Narainganj	...	2	2	16.4	10.9	1	1	1	1	...	45.6	39.4	24.3	79.8
Chittagong	Chittagong	...	1	4	9.0	13.6	1	1	1	2	15.6	23.0	47.9	130.7
Tipperah	Comillah	...	4	3	...	...	35.0	21.1	...	...	1	...	1	...	...	2	...	1	...	2	173.1	...	31.9	...	...	37.7	...	30.6	...	163.4
Patna	Patna City	...	29	11	...	...	12.7	14.0	...	...	9	6	...	5	2	3	7	2	2	5	106.6	21.4	...	16.1	9.3	3.6	15.7	6.5	7.4	16.8
Gya	Gya	...	43	22	...	...	37.3	71.2	...	...	17	10	...	2	1	2	8	8	7	10	463.9	81.8	...	15.6	9.9	7.1	22.7	42.6	53.4	101.0
Shahabad	Arrah	...	4	3	...	...	6.7	12.6	...	...	1	1	...	1	...	2	...	...	1	1	40.4	11.7	...	11.8	...	13.3	...	...	16.8	18.9
Mosufferpore	Mosufferpore	...	9	4	...	...	15.0	10.7	...	...	3	1	1	1	1	1	1	1	3	...	163.4	12.9	11.6	15.1	17.2	6.1	7.8	10.4	45.0	...
Durbhanga	Durbhanga	1	17	3	...	...	400.3	18.3	8.9	...	...	1	2	4	3	...	5	...	2	...	33.4	12.7	26.6	26.1	...	19.3	...	14.0	...	63.1
Saran	Chupra	...	8	2	...	...	10.5	13.1	...	...	2	2	1	...	2	1	...	1	...	2	73.7	20.1	8.7	...	30.0	5.6	...	5.6	...	36.6
Bhagulpore	Bhagulpore	...	13	3	...	...	17.0	9.1	...	...	6	2	...	...	...	2	1	1	...	4	261.3	19.2	...	...	...	9.5	5.6	6.3	...	57.7
Monghyr	Monghyr	...	14	3	...	...	16.3	12.4	...	...	4	3	1	...	3	...	2	1	...	3	140.1	25.1	7.4	...	41.3	...	11.7	5.2	...	43.3
Purneah	Purneah	...	1	3	...	...	5.7	27.6	...	...	2	...	...	...	...	...	2	...	...	...	367.6	...	...	...	...	...	...	...	...	...
Poori	Poori	...	16	83.9	7	2	1	3	4	1,201.3	25.7	15.6	46.6	115.3
Total		6	275	106	44.8	19.1	19.1	78	46	26	19	13	46	44	37	25	59	169.6	20.9	11.3	10.3	8.4	11.1	13.1	15.4	16.8	46.7

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 18th August 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.*,
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 16th August 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 16TH AUGUST 1890.			WEEK ENDING SATURDAY, THE 17TH AUGUST 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	310	65,215	1,086	286	40,700	631
Jute ...	35	10,900	215	61	22,475	383
Firewood ...	120	55,675	867	128	61,025	940
Other articles ...	740	2,08,500	2,977	786	1,65,325	2,299
Total ...	1,205	3,35,290	5,085	1,261	2,89,525	4,223

EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the 3 weeks and 6 days ended 26th July 1890,
as compared with the same period of 1889.

STAPLES.	1890.		1889.		Increase.		Decrease.	
	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.	Weight.	Freight.
	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.	Mds.	Rs.
ANIMALS, LIVING	No.		No.		No.		No.	
Horses, ponies, and mules	22	368	13	230	10	138		
Cattle	78	874	61	840	17	134		
Sheep and goats	2,167	3,117	3,092	3,092			1,530	875
Other kinds	1	14	4	26			3	12
Total	840	862	780	816	60	47		
Horses								
Cattle and rats	8	4	1	3	7	2		
Oatmeal (Indian-rubber)	6	6	3	6	1	1		
Chinese and Japanese ware	6,16,869	1,45,030	6,35,779	2,33,360			18,490	78,340
Coal and coke, up	21,01,070	2,68,509	21,94,010	2,68,540			92,880	24,049
Ditto, down	14,016	12,607	12,244	10,417	1,788	2,190		
Cotton, raw	7,000	8,428	7,142	8,529			46	31
Twist and yarn (European)	12,530	7,858	12,938	8,141			408	283
Ditto (Indian)	62,480	7,888	69,840	84,737			7,150	8,440
Pleco-goods (European)	18,808	8,828	18,428	9,233	79		436	
Ditto (Indian)	70	49	93	55			17	
Acetate	1,081	1,858	966	1,050	115		88	
Other sorts, not intoxicating	1,104	587	1,010	553	85		35	
Intoxicating drugs (other than opium, i.e., arsenic, bhanga, ganja, and charas, &c.)								
Indigo	160	145	256	148		3	86	
Madder or manjit		68	166	106			48	36
Safflower	106	5,138	3,092	1,740	2,986	8,309		601
Turmeric	3,333	1,704	2,075	2,905	8			
Other kinds	379	740	785	785				
Earthenware and porcelain	4,040	931	9,205	920			394	
Jute, raw	44,820	31,489	51,313	20,117			6,367	4,628
Do., manufactured (gunny-bags and cloths)								
Other fibres, raw	2,221	1,151	4,725	2,157			2,504	1,006
Ditto, manufactured	1,732	466	1,401	318	331	141		
Cocoanuts	2,020	1,572	1,708	1,038	312	534		
All other kinds	24,860	15,916	20,816	16,071	4,044	1,845		
Wheat	3,05,888	92,408	2,45,048	61,908	1,20,840	30,500		
Gram and pulses	2,13,020	61,105	2,27,350	62,145			14,360	1,060
Rice, husked	3,20,430	55,034	3,59,200	70,514			32,770	21,150
Do., unhusked	40,408	3,919	64,940	6,190			16,540	1,880
Other raw and spring crops	72,717	14,011	90,877	28,161			18,160	6,830
Government stores	17,052	87,445	18,512	30,010		815	680	
Gums and resins	4,931	2,905	4,770	2,801	85	41		
Hides of cattle	20,218	10,795	19,641	10,690	577	96		
Skins of sheep, goats, and small animals	10,780	4,851	14,844	6,097			3,814	1,146
Horns	1,336	780	1,158	730	180	34		
Lac, dye	335	151	200	130	135	21		
Do., shell	8,739	6,461	6,963	6,900	2,776	1,851		
Do., stick and other kinds	20,799	7,076	13,044	6,072	7,755	3,904		
Leather, unmanufactured	1,638	3,452	2,490	3,843			633	391
Ditto, manufactured	680	740	737	989			51	250
Liquors	11,047	11,088	12,061	11,188			1,004	100
Mats	374	117	320	177			54	60
Minerals	98,506	15,072	95,590	18,475			2,990	103
Metals	16,635	4,510	21,910	18,018			5,284	9,106
Brass and copper	72,305	41,845	67,898	45,454	5,107		1,600	1,600
Other metals	3,573	3,655	5,345	6,208			1,675	1,503
Iron	77,153	31,430	80,571	30,140	17,282	1,384		
Oils	664	778	463	851	112			78
Opium	2,671	1,639	2,065	1,254			285	
Paints and colours	31,712	18,635	19,110	14,349	5,002	4,386		
Provisions	6,292	4,140	7,098	4,785			1,806	625
Railway materials, Construction Account	2,85,610	3,490	3,70,040	4,500			84,430	1,050
Ditto, Foreign	91,304	30,200	1,20,644	45,410			29,340	6,120
Salt	2,58,028	65,650	4,12,341	80,447			55,718	14,797
SALT-PETRE, &c.	25,592	12,581	20,630	14,284			5,437	1,657
Baltipetre	16,340	7,648	18,765	6,615		83	400	
Other saline substances	3,38,685	97,877	7,25,815	2,31,957			3,40,130	1,24,300
Linseed	75,205	19,805	3,48,385	74,635			2,78,330	64,830
Mustard and rape	2,400	698	1,150	48	1,250	650		
Fl or linjelly	64,407	17,427	1,73,147	47,177			1,08,780	29,530
Other oilseeds	7,025	3,757	5,305	2,637	1,890	220		
Indigo seed								
Other kinds	31,761	10,775	73,441	13,923			2,650	2,080
Silk, raw	1,144	745	640	430		408		
Do., manufactured (European)	420	235	590	333			161	100
Do., ditto (Indian)	4,807	4,400	4,413	4,247			6	
Stones and marble	2,09,145	25,105	1,78,225	18,010	30,920	10,070		
Sugar	47,000	9,745	58,129	25,436			50,329	18,891
Do., refined	84,478	6,546	27,540	4,136	5,638	2,410		
Do., unrefined	1,698	3,161	1,970	2,637			372	786
Tea, Indian								
Do., Foreign								
Tobacco	40,015	18,435	60,726	26,470			25,811	10,085
Timber	27,178	6,741	22,078	2,744	4,900	1,997		
Firwood	16,251	775	18,557	913			1,700	134
Wool, raw	837	514	1,143	951			285	437
Do., manufactured (Euro- pean)	60	183	231	240			165	147
Wool, manufactured (Indian)	929	787	953	754	7	5		
Shawls								
All other articles of merchandise	1,04,512	94,631	2,22,194	1,12,483			28,976	17,892
Hones	36,137	10,283	12,110	2,014	24,027	7,339		
Pistons	25,480	15,718	25,007	13,363	3,513	2,133		
Total	60,52,344	14,60,011	60,40,671	18,50,533	3,03,704	78,009	12,00,040	4,43,846

General remarks on the fluctuation of principal staples carried over the East Indian Railway during month ended 26th July 1890.

INCREASES.

Cotton.—This is a continuation of the increase previously reported, and was chiefly in despatches from the Bombay, Baroda and Central India Railway *via* Agra to Howrah for export.

Turmeric.—Chiefly in despatches from Howrah to Cawnpore and Delhi.

Wheat.—The improvement in this commodity was in despatches from stations on the "R" and "B" districts to Howrah for export to London.

Lac.—The increase appears chiefly in despatches of shell-lac from Mirzapur to Howrah for export to Europe; also in lac refuse to the Port Commissioners' railway and to stations on the Tirhoot State Railway.

Ghee.—Chiefly in long distance despatches from stations on the "D" district to Howrah for local consumption.

Stone.—The increase recorded under this head was principally in despatches of stone ballast from Pakur to Chitpore, Sealdah, Howrah and other stations.

Roses.—Principally in despatches from Digha Ghât via Digha Ghât, via Mogulserai and Agra to Bally and Chitpore.

Potatoes.—Chiefly in despatches from Patna City to Howrah and Seoraphuli for local consumption.

DECREASES.

Coal and coke, up and down.—The falling off was chiefly in upwards coal for the Bombay, Baroda and Central India, the North-Western, and the Bengal and North-Western Railways owing to decreased demands from those lines. The decrease in the downwards traffic is attributable to less exports to coast ports.

Piece-goods, European.—This falling off appears chiefly in despatches from Howrah and from Bombay via Jubbulpore, and was due to the fluctuation in exchange unsettling the market.

Gunny.—Following the falling off in the export trade.

Rice (husked and unhusked).—This decrease, as reported in previous months, was due entirely to the falling off of despatches of upward consignments sent from stations on the "A" and "R" districts last year.

Other raw and spring crops.—As stated in previous months, the falling off recorded under this head was due to the unusually heavy traffic in cheap food-grains last year from stations on the "B" district to stations on the Tirhoot State Railway owing to scarcity of food-grains in Tirhoot.

Brass and copper.—Chiefly in despatches from Howrah owing to demand being very dull during the period under review.

Railway material, Foreign.—The falling off was chiefly in despatches from Howrah to Katni, Umaria, and Umballa.

Salt.—The decrease in this staple appears chiefly in despatches of imported salt from Howrah to stations on the Tirhoot State and the Bengal and North-Western Railways owing to heavy rains up-country.

Seeds.—Chiefly in linseed to Howrah for export; also in mustard-seed to Howrah and other stations for local consumption.

Sugar (refined).—The falling off was principally in despatches from the Shahabad district to Howrah, Cawnpore, Agra and to stations on the Jubbulpore line, the Great Indian Peninsula and the Bombay, Baroda and Central India Railways.

Tobacco.—Chiefly in despatches from Barh and stations on the Tirhoot State Railway to Cawnpore, Jubbulpore and stations on the Great Indian Peninsula Railway.

N. ST. LEGER CARTER, Traffic Manager.

TRAFFIC MANAGER'S OFFICE, CALCUTTA, the 18th August 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	205,914	2,18,701 0 0	17,11,721 30	2,71,288 4 0	18,998 9 9	6,08,953 13 8	61,840½	76,344	138,184½
Or per mile of railway ...	145 5 10	145 5 10	12 6 11	12 6 11	12 6 11	300 2 11	...	...	...
For previous 5 weeks of half-year ...	1,122,096	10,08,249 3 0	86,03,216 0	18,84,901 10 0	85,486 15 6	80,86,677 12 6	807,831½	984,605½	1,792,437½
Total for 6 weeks ...	1,328,010	13,11,350 3 0	1,03,14,937 30	22,56,189 14 0	1,07,421 9 8	86,75,341 10 3	872,692	1,060,950½	1,933,642½
COMPARISON.									
Total for corresponding week of previous year ...	224,061	2,25,575 11 6	21,62,322 10	4,37,719 13 0	17,608 8 4	6,80,800 0 4	66,659	77,709	144,368
Per mile of railway correspond- ing week of previous year ...	147 15 11	147 15 11	14 7 7	286 18 0	11 7 7	446 4 6	...	...	...
Total to corresponding date of previous year ...	1,409,359½	14,22,061 13 7	1,32,97,710 30	29,01,747 3 0	1,04,157 8 10	43,37,096 9 5	399,630	516,000	915,630

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 10th AUGUST 1890.			RECEIPTS FOR WEEK ENDING 9th AUGUST 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 10th AUGUST 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 9th AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
1,525½	Rs. 6,80,800	446	1,525½	Rs. 6,08,954	399	1,525½	Rs. 1,48,69,787	564	1,525½	Rs. 1,47,84,492	510	Rs. 446	Rs. 15,00,245

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	8,788	4,445 15 0	33,200 30	1,056 0 0	40 13 0	6,440 13 0	943	654	1,597
Or per mile of railway	154	77 11 1	580 20	34 3 1	0 11 5	112 9 7	.....	.....	.....
For previous 5 weeks of half-year	40,180	24,354 7 0	1,73,804 30	10,743 2 0	102 12 0	35,330 5 0	4,729	2,035	7,664
Total for 6 weeks	57,918	28,798 5 0	2,06,999 20	12,739 2 0	233 9 0	41,771 1 0	5,671	3,689	9,260
COMPARISON.									
Total for corresponding week of previous year	11,037	5,445 12 2	69,410 30	2,409 10 0	48 5 6	7,897 11 8	1,075	808	1,883
Per mile of railway corresponding week of previous year	193	95 5 4	1,214 10	42 2 0	0 11 10	139 1 2	.....	.....	.....
Total to corresponding date of previous year	60,713	30,303 14 9	3,22,069 20	15,762 0 0	275 5 9	52,239 4 6	5,781	4,247	10,028

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	7,986	138	57½	9,441	113	57½	1,66,236	163	57½	*1,66,514	165	2,278	.....

* Deducted Rs. 571 on account of difference between the approximate and audited figures to 30th June 1890.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	17,277	4,814 15 0	4,269 10	143 12 0	6 5 0	4,964 14 0	924	44	968
Or per mile of railway	.....	193 14 9	.....	6 7 4	0 5 7	200 10 8	.....	.....	.....
For previous 5 weeks of half-year	80,112	21,939 15 0	21,164 20	741 15 0	36 10 0	22,619 8 0	4,500	234	4,734
Total for 6 weeks	106,889	26,144 12 0	25,433 30	885 11 0	42 15 0	27,083 0 0	5,224	278	5,502
COMPARISON.									
Total for corresponding week of previous year	18,153	4,631 11 8	4,170 30	154 1 0	8 13 0	4,786 9 8	935	38	973
Per mile of railway corresponding week of previous year	.....	207 11 0	.....	6 14 9	0 6 4	215 0 7	.....	.....	.....
Total to corresponding date of previous year	118,616½	27,164 11 11	26,113 0	970 5 0	22 15 0	28,143 11 11	5,553	212	5,765

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	4,765	216	22½	4,403	201	22½	1,10,802	209	22½	*1,11,031	203	1,120	.....

* Deducted Rs. 490 on account of difference between the approximate and audited figures to 30th June 1890.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 2nd August 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	116,050	54,150 0 0	5,34,500 0	1,14,100 0 0	20,570 0 0	1,84,720 0 0	23,921	23,253	56,174
Or per mile of railway...	153	71 0 0	697 0	149 0 0	25 0 0	235 0 0	...	...	...
For previous 4 weeks of half-year...	509,950	2,34,590 0 0	17,42,790 0	3,72,610 0 0	53,040 0 0	4,00,210 0 0	80,725	115,442	200,167
Total for 5 weeks...	626,000	2,88,740 0 0	22,77,590 0	4,86,800 0 0	73,510 0 0	5,60,320 0 0	107,646	148,695	256,341
COMPARISON.									
Total for corresponding week of previous year...	†134,250	50,800 0 0	5,17,593 0	1,18,408 0 0	10,226 0 0	1,79,531 0 0	23,654	27,703	51,357
Per mile of railway corresponding period of previous year...	180	68 0 0	678 0	158 0 0	*1 0 0	227 0 0	...	...	...
Total to corresponding date of previous year...	603,017	2,63,738 0 0	22,19,638 0	4,56,559 0 0	67,766 0 0	7,48,063 0 0	112,913	121,250	234,163

* Excluding steamer earnings.
† Includes monthly tickets.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 2ND AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
767	1,70,651	240	767	1,88,780	246	693	20,22,505	234	760	*31,67,335	231	2,41,830	...

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		(Other earnings (estimated)).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	26,690	8,750 0 0	34,280 0	2,300 0 0	250 0 0	11,300 0 0	2,608	2,060	5,668
Or per mile of railway...	198	70 0 0	274 0	18 0 0	2 0 0	90 0 0	...	...	...
For previous 4 weeks of half-year...	107,192	36,840 0 0	1,37,579 0	8,000 0 0	460 0 0	45,300 0 0	18,426	7,646	21,072
Total for 5 weeks...	133,882	45,590 0 0	1,71,859 0	10,300 0 0	710 0 0	56,600 0 0	17,034	9,706	26,740
COMPARISON.									
Total for corresponding week of previous year...	27,861	8,495 0 0	43,668 0	2,052 0 0	96 0 0	11,523 0 0	3,667	1,966	5,633
Per mile of railway corresponding period of previous year...	220	68 0 0	349 0	13 0 0	1 0 0	92 0 0	...	...	...
Total to corresponding date of previous year...	*139,741	46,034 0 0	1,81,226 0	11,490 0 0	822 0 0	57,846 0 0	17,034	10,250	27,284

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 2ND AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	11,523	92	125	11,300	90	125	2,37,693	106	125	*3,72,610	90	...	10,083

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	12,530	4,020 0 0	15,220 0	1,110 0 0	120 0 0	5,250 0 0	2,414	690	3,104
Or per mile of railway ...	145	47 0 0	177 0	13 0 0	1 0 0	61 0 0	.....	.....	.....
For previous 4 weeks of half-year ...	50,920	17,000 0 0	41,580 0	4,230 0 0	400 0 0	21,810 0 0	9,000	2,562	11,562
Total for 5 weeks ...	63,450	21,110 0 0	56,800 0	5,340 0 0	610 0 0	27,060 0 0	11,414	3,252	14,666
COMPARISON.									
Total for corresponding week of previous year ...	15,002	3,900 0 0	9,322 0	606 0 0	74 0 0	4,612 0 0	2,478	618	3,096
Per mile of railway corresponding period of previous year ...	175	46 0 0	108 0	7 0 0	1 0 0	54 0 0	.....	.....	.....
Total to corresponding date of previous year ...	63,416	20,131 0 0	70,446 0	3,703 0 0	1,223 0 0	23,116 0 0	12,047	3,784	15,831

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 2ND AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	4,643	54	86	5,250	61	86	90,395	64	86	1,03,802	70	9,407	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 2nd August 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	4,300	1,560 0 0	7,940 0	420 0 0	20 0 0	2,040 0 0	935	240	925
Or per mile of railway ...	158	57 0 0	291 0	17 0 0	1 0 0	78 0 0	.....	.....	.....
For previous 4 weeks of half-year ...	18,300	4,800 0 0	52,640 0	2,830 0 0	40 0 0	7,260 0 0	2,020	1,619	3,639
Total for 5 weeks ...	16,600	5,950 0 0	60,580 0	3,250 0 0	60 0 0	9,300 0 0	2,600	1,959	4,555
COMPARISON.									
Total for corresponding week of previous year ...	2,648	998 0 0	6,090 0	444 0 0	14 0 0	1,456 0 0	593	240	926
Per mile of railway corresponding period of previous year ...	97	0 0	244 0	16 0 0	1 0 0	54 0 0	.....	.....	.....
Total to corresponding date of previous year ...	18,926	5,818 0 0	59,640 0	2,601 0 0	160 0 0	8,076 0 0	2,760	1,797	4,577

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 2ND AUGUST 1889.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 2ND AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	1,456	54	27½	2,040	75	27½	33,656	60	27½	34,033	71	1,379	.....

* Audited up to week ending 21st May 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 2nd August 1890, on 315 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the period on 315 miles open	30,171	Rs. 11,237	Mds. 95,018	Rs. 8,018	Rs. 1,861	Rs. 22,004	5,788	5,162	10,950
Or per mile of railway	115	36	305	25	3	67*	.....	.....	.....
For previous 3 weeks of half-year	1,37,891	45,791	4,97,930	50,219	7,570	1,03,580	20,618	23,208	43,827
Total for 4 weeks	1,73,062	57,018	5,03,948	59,135	9,431	1,25,064	26,403	28,370	54,773
COMPARISON.									
Total for corresponding week of previous year on 273 miles open	33,876	10,606	1,06,646	15,194	3,024	29,873	5,010	6,125	11,135
Per mile of railway corresponding week of previous year	124	39	721	55	1	108*	.....	.....	.....
Total to corresponding date of previous year	184,890	63,475	9,61,556	78,553	16,431	1,58,459	28,982	33,008	61,990

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

RECEIPTS FOR WEEK ENDING 3RD AUGUST 1890.			RECEIPTS FOR WEEK ENDING 2ND AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 3RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 2ND AUGUST 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	29,873	108	315	22,004	70	273	5,70,780	166	294*18	7,31,477	159	45,007	.....



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, AUGUST 27, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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EMIGRATION FROM THE PORT OF CALCUTTA DURING THE YEAR 1889.

GENERAL DEPARTMENT—COLONIAL EMIGRATION.

Calcutta, the 15th August, 1890.

RESOLUTION.

READ—

The Report on Emigration from Calcutta during the year 1889.

Read again—

The Report on Emigration from Calcutta during the year 1888.

DURING the past year colonial emigration from Bengal has been marked by an unusual activity, arising from the fact that the colonies have now been obliged to make up for the small importation of labour caused by the uncertainty of the sugarcane industry in the preceding years. The increased demand is not, however, regarded by the Protector as indicative of any probable revival of the industry. The requisitions in the year 1889 amounted to 9,945 as against 7,180 in 1888, the increase of 2,765 being attributed generally to the cause above mentioned, and more particularly to the re-opening of emigration to the colonies of Natal and Mauritius, which did not indent for coolies during the previous year. The larger requisitions gave rise to an increase in the number of recruiters from 511 to 717, and in the number of registrations from 10,325 to 16,813, the excess being, roughly speaking, divided proportionately among the more important of the recruiting districts. The number of adults actually despatched was 10,041, against 6,544 in 1888 and 4,563 in 1887. The two leading districts of Shahabad and Benares maintained their places on the list, the former having supplied 2,630, and the latter 2,085 registrations. The district of the 24-Pergunnahs, which shows on paper the largest number of registrations, cannot be compared with the others, owing to the fact that a large proportion of the

recruiting in that district is carried on among coolies brought to Calcutta by unlicensed emigration agents under pretence that they are destined for Assam. The Lieutenant-Governor agrees with the Protector that this practice is objectionable, inasmuch as it is a breach in spirit of the Colonial Emigration Act, which provides for all emigrants being registered for the colonies in the district of recruitment. It does not appear, however, that under the law, as it at present stands, there is any means of remedying the evil. The question is under consideration in connexion with the amendment of the Inland Emigration Act (Act I of 1882), which is now before this Government and the Government of India.

2. The standard attained in the management of the depôts in Calcutta has, with the single exception of the Mauritius depôt at Bhowanipore, been all that could be desired, both with a view to the sanitary arrangements and to the comfort of the emigrants while awaiting embarkation. The slight increase in the rates of depôt sickness and mortality was not more than would naturally follow on a much increased depôt population. The Mauritius depôt was only re-opened during the course of the year, and is described by the Medical Inspector as wanting in space for exercise, and so much shut in on all sides that free ventilation and perflation of air are deficient, although the regulations as to cubical and superficial area were literally complied with, and the Lieutenant-Governor is pleased to learn that the depôt will very shortly be abandoned and a more convenient site selected on the river bank at Garden Reach. The frequent occurrence of sickness, especially measles, in the Bhowanipore depôt, had much to account for both in increasing the general average mortality and in causing delay in the departure of emigrant ships.

3. During the year under report 21 vessels left Calcutta for various colonies, of which five were steamers bound either to Natal or Mauritius. In every case the women carried were in excess of the prescribed number, and it is noticed with satisfaction that in the case of Surinam more than half of the women embarked were married. The mortality on the voyages, though showing a slight increase in the average, calls for no particular notice. Careful enquiry is made in each case in which the result of the voyage seems to indicate unusual sickness.

4. Fivethousand one hundred and two emigrants were reshipped from the different colonies as against 3,908 in the preceding year. Of these 109, or a percentage of 2.14, died on the voyage—a percentage which the Lieutenant-Governor agrees with the Protector in considering moderate, looking to the age and decrepit condition of many of the returning emigrants. The Protector has been requested in future reports to notice particularly the question of the return of lepers from the colonies, and has been at the same time instructed to use great care in preventing the despatch as emigrants from Calcutta of any person open to the slightest suspicion of incipient leprosy. From correspondence subsequent to the report now under review it appears that no less than 38 lepers were returned from the colonies during the year 1889, of whom 18 came from Demerara and 12 from Mauritius. The Lieutenant-Governor is not inclined to accept the position that colonies should be allowed to return emigrants who have contracted the disease during the period of their expatriation.

5. The administration of the estates of deceased emigrants, which now forms an important part of the work of the Protector's office, has been carried on with diligence and patience, with the result that enquiries for heirs were completed in 257 cases, or 67.1 per cent. of the number of estates under administration during the year. The Lieutenant-Governor agrees with the Protector that it is most important that these enquiries should be instituted as soon as possible after the death of the emigrants, and that the Protector should be put in possession of the information on which to conduct the investigation without any unreasonable delay. It is also very desirable that the estates of those whose heirs have been traced should be made over to the Protector with the greatest possible promptitude.

6. The thanks of the Lieutenant-Governor are due to Surgeon-Major D. W. D. Comins for the manner in which he has carried out his duties as Protector of Emigrants; to Surgeon-Major J. F. P. McConnell, who held the position of Medical Inspector, and to Dr. R. C. Chandra, who officiated for Dr. Comins from July to October.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

**RESOLUTION ON THE REPORT ON THE LEGAL AFFAIRS OF THE
GOVERNMENT OF BENGAL FOR THE YEAR 1889-90.**

RESOLUTION.

JUDICIAL.

Dated Calcutta, 25th August 1890.

READ—

The Report on the Legal Affairs of the Government of Bengal for the year 1889-90.

Read also—

The Reports for the two preceding years, and the orders of Government thereon.

At the close of the year 1888-89 six appeal cases were pending before the Privy Council. Of these only two were decided—one against the Government in which the Secretary of State was the appellant, and one in favour of the Court of Wards as the respondent. One case was dismissed, the subject-matter of the dispute having been amicably settled between the parties themselves in this country. Only one appeal was instituted before the Privy Council during 1889-90, but as it was admitted late in the year, the papers of the case are not yet ready. The Secretary of State is respondent in this case.

2. The following statement shows the result of civil litigation in all the Courts of Bengal to which Government was a party during the year 1889-90 as compared with the two preceding years :—

	Original cases.			APPEALS.						Total.		
				Before High Court.			Before Lower Courts.					
	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.
Decided in favour of Government	344	299	234	118	83	50	63	36	44	524	338	348
Ditto against ditto	85	130	61	8	.....	1	13	19	6	73	155	85
Compromised, remanded, or withdrawn	83	65	89	1	.....	5	5	2	4	89	87	48
Percentage in favour of Government (omitting fractions)	80	69	83	98	100	98	83	66	88	88	69	80

The Legal Remembrancer explains that of the 58 cases decided against Government, 26 were land acquisition cases, in which the Collector's offer was slightly varied by the Judge on reference. Leaving these cases out of calculation, the percentage in favour of Government would be 87 in 1887-88, 66 in 1888-89, and 86 in 1889-90. The results of litigation in the High Court and the lower Appellate Courts do not seem to call for notice. In the Courts of first instance 51 cases were decided against Government, and the percentage of cases decided in favour of Government is 83, against 86 in 1887-88 and 69 in 1888-89. Omitting land acquisition cases, the percentages would be 75 in 1887-88, 66 in 1888-89, and 81 in 1889-90.

3. The Legal Remembrancer reports that the only case of any importance decided against Government was that of Messrs. Watson and Company, in which they sued to recover possession of 284 bighas of land. They asserted that their *zemindari* and *putni* mohals, situated on the left bank of the river Howlia, were diluviated in 1272 B.S. and re-appeared on the original site in 1281 B.S., when it was included in the contiguous mehal Chur Kadipur and settled with Kani Brojosundari Debi. Limitation was pleaded on the part of Government, and it was also urged that, as the plaintiffs did not raise any objection when the land was settled, they must, in the event of their establishing their title to the land, wait for possession until the expiration of the term of settlement. The Court, however, overruled the plea of limitation and, having found on local enquiry that the greater portion of the land in dispute was a re-formation of the old site of the plaintiffs' mouzaha Dharinadaha and Tekulia, gave a modified decree to the plaintiffs. It was not considered necessary to prefer an appeal against this decision.

4. The following figures show the result of the litigation in which the Court of Wards was concerned for the year under report as compared with the two preceding years:—

	Original cases.			APPEALS—					
				Before High Court.			Before Lower Courts.		
	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.	1887-88.	1888-89.	1889-90.
In favour of Court of Wards	663	745	514	10	11	14	25	68	65
Against Court of Wards	75	52	49	...	4	...	100	24	13
Compromised, remanded, or withdrawn	60	53	48	5	...	3	3	10	10
Percentage in favour of Court of Wards (omitting fractions)	90	90	92	100	76	100	25	7	85

It is explained that the decrease in the number of cases is due to a falling off in the number of original suits on behalf of the Burdwan Raj in the districts of Burdwan, Birbhum, and Bankura, and of two other estates, one in Tipperah and the other in Hazaribagh.

In all the cases in the High Court the Court of Wards was respondent. In six of those in which the Court of Wards preferred appeals unsuccessfully in the lower Appellate Courts, and in 41 out of 49 of the cases decided against the Court of Wards in original suits, action had been taken without previous communication with the Legal Remembrancer. It is not stated how many of the successful cases had been similarly undertaken by the local authorities on their own responsibility.

5. The figures below show the amount of Government decrees recovered during 1889-90 as compared with the two preceding years:—

	1887-88.	1888-89.	1889-90.
	Rs.	Rs.	Rs.
Amount under realization	48,884	67,540	55,247
Realized during the year	11,389	30,281	11,659
Percentage of recovery	23½	44½	21½

No explanation has been given of the great falling off in the percentage of recovery, but details are given by the Legal Remembrancer to show that measures for the recovery of outstanding amounts are being taken in all districts, and it is further said that a large portion of the balance will have to be written off, all attempts to realize having proved unsuccessful. Only Rs. 760 were remitted during the year.

6. The following table shows the amount of wards' decrees recovered during the year as compared with the two previous years:—

	1887-88.	1888-89.	1889-90.
	Rs.	Rs.	Rs.
Amount under realization	13,20,600	13,94,090	11,74,880
Realized during the year	2,59,312	2,68,027	2,15,720
Percentage of recovery	19½	19½	18½

7. The largest outstanding balances are noted in the margin. In many

	Rs.
Burdwan Raj Estate	3,89,785
Khettrobat "	18,234
Dighapatia " (eldest ward)	53,488
Ditto " (three younger wards)	97,233
Dhankora "	55,201
Dukhin Shabaspore "	50,367
Nurhan "	41,716
Deokumar's "	42,334
Tikari "	1,78,586
Srinuggur "	1,68,778

instances it is reported that considerable sums are irrecoverable, and if this be the case, the amounts should be reported for remission at an early date. Recent collections on the Burdwan Raj Estate are said to be encouraging, and special arrangements have been made by the Board of Revenue for the realization of the balance due on the estate of the three younger Dighapatia wards.

No information is forthcoming at present as to the very large balance reported from the Tikari Estate, and the Lieutenant-Governor would be glad to have a special report on the subject. His Honor would be glad also to hear what action has been taken on the special reports called for by the Legal Remembrancer on this subject in 1888-89, as the percentage of collections generally is far from satisfactory.

8. The Lieutenant-Governor's acknowledgments are due to Mr. Allen for his management of the department under his charge.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 23rd August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan Aug. 23, '90	0.04	Weather—cloudy and hot. Transplantation nearly over. Prospects good.
	Culna ...	0.48	Prices of common rice:—
	Cutwa ...	0.72	
	Ranigunge ...	1.38	
			Srs. } Burdwan ... 15½ } Culna ... 14 } per rupee. Cutwa ... 14½ } Ranigunge ... 16 }
	2 Bankura .. 23, '90	1.35	Weather—cloudy with occasional light showers and sunshine. Rain wanted in some places. Prospects of crops good. Common rice selling at 19 seers per rupee at Sudder and 18½ seers at Bissanpore.
	3 Bishnupur .. 23, '90	1.90	Weather—seasonable. The break in the rains has been good for the crops, which are most excellent. Prices of common rice continue to be from 16 to 18 seers per rupee.
	Rampore Haut ...	2.86	
	4 Midnapur .. 23, '90	0.50	Weather—now cloudy. More rain required generally throughout district. Prospects fair. Prices of common rice:—
			Srs. Ch. } Sudder ... 16 0 } Contai ... 16 0 } per rupee. Tumlook ... 14 3 } Ghatal ... 15 8 }
PRESIDENCY DIV.	5 Hooghly .. 23, '90	1.01	Weather—cool and seasonable. Reports as to state and prospects of crops are generally very favourable. Prices of common rice:—
	Serampore ...	0.50	
	Jehanabad ...	0.06	
			Srs. } Sudder ... 13 } Serampore ... 16 } per rupee. Jehanabad ... 15 }
	Howrah .. 28, '90	1.31	Weather—seasonable. Transplanting of <i>amun</i> not yet finished. Crops generally doing well. Price of common rice 13 to 14 seers per rupee.
	Uluberia ...	0.25	
	<i>Central Districts.</i>		
	6 24-Pergha. Aug. 23, '90	1.51	Weather—hot and cloudy with occasional light showers. <i>Aus</i> and jute are being cut. Transplantation of <i>amun</i> still continues. More rain wanted in places. Prices stationary.
	7 Nuddea .. 23, '90	0.62	Weather—seasonable. Harvesting of <i>aus</i> paddy going on. Paddy on low lands mostly destroyed by floods.
	Kushtea ...	1.4	
RAJSHAHY DIV.	8 Meherpore ...	0.94	Weather—rainy. Prospects of crops continue good. Transplantation of <i>amun</i> going on. Rivers have risen higher than usual.
	Chudanga ...	1.64	
	Kanaghat ...	1.44	
	Khoolna .. 23, '90	1.33	Weather—hot with occasional light showers. <i>Aus</i> harvesting going on. Rivers rising up, and crops on low lands are being submerged.
	Bugirhat ...	2.79	
	Satkhira ...	0.33	
	Jessore .. 23, '90	0.64	
	Jhenidah ...	1.25	
	Mugura ...	1.04	
	Narail ...	1.38	
RAJSHAHY DIV.	Bongong ...	1.05	Weather—hot with occasional heavy showers. River imperceptibly falling down; the gauge stood this noon (23rd) 30' 8". Four <i>annas</i> outturn of <i>dhadoi</i> crop reported from the Jungipore subdivision. General outturn of this crop expected to be much less than usual. Prospects of standing crops on the whole good. <i>Amun</i> thriving well.
	Moorshedabad .. 23, '90	4.23	
	11 Dinagpur .. 23, '90	5.78	Weather—seasonable. Harvesting of jute and <i>dhadoi</i> still going on. Prospects of <i>kaimanti</i> paddy very favourable. Transplantation of <i>kaimanti</i> not yet finished. Price of rice stationary.
	Thakurgaon ...	5.0	
	12 Rajshahy .. 23, '90	2.25	Weather—rainy and seasonable. State and prospects of crops good in Nattore and Nowgong; but the inundation is seriously affecting the standing crops in nearly all thannas of the Sudder subdivision; it is too early to estimate the damage that may have been caused.
	Nattore ...	2.74	
	Nowgong ...	1.37	
	13 Rungpur .. 23, '90	7.04	Weather—cloudy with occasional showers. The rain has been beneficial to <i>amun</i> which is being transplanted. Sugarcane promising well.
	Nilphamari ...	9.91	
	Kurigram ...	5.17	
RAJSHAHY DIV.	Gaibanda ...	0.89	
	14 Bogra .. 23, '90	3.59	Weather—rainy and cloudy with south-easterly wind. Condition of sugarcane, <i>aus</i> , and <i>amun</i> good. <i>Aus</i> and jute are being cut. Common rice is being sold at 18½ seers per rupee.
	Sherpur ...	3.93	
	Nowkhilla ...	2.87	
	15 Pabna .. 23, '90	2.56	Weather—cool and cloudy. The continual rise of the rivers has caused partial damage to the jute, sugarcane, <i>aus</i> , and <i>amun</i> crops. Prices stationary.
RAJSHAHY DIV.	16 Darjeeling .. 23, '90	9.10	Weather—very rainy again. Winter rice is being transplanted in the Terai.
	17 Jalpigore .. 23, '90	17.22	Weather—rainy and cloudy. Harvesting of <i>aus</i> paddy going on. Jute is being cut in places. Transplantation of <i>kaimanti</i> paddy continues. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
<i>Eastern Districts.</i>			
Dacca Divn.	18 Dacca Aug. 23, '90	2.19	Weather—cloudy with gleams of sunshine at intervals. Jute and <i>aus</i> paddy being harvested. <i>Amun</i> paddy thriving. Rivers rising again slowly. Fodder is not available in abundance. Common rice 18 to 15 seers per rupee.
	19 Farredpur „ 23, '90	5.26	Weather—seasonable. In the Goalundo subdivision, where the water has not risen very high, <i>aus</i> rice is nearly all gathered with a good outturn; and the state of <i>amun</i> continues fair. Sugarcane, however, has been partially damaged by caterpillars. In the Sudder and Madaripore subdivisions the water is again rising. About eight annas of <i>aus</i> paddy have been damaged, but the prospect of <i>amun</i> paddy continues fair. Fodder is scarce, and cattle are suffering in consequence. Common rice is selling at 18 seers a rupee at its cheapest.
	20 Backergunge „ 23, '90	2.31	Weather—seasonable. Rainfall in the district has been very divergent, in Perozpur only .97 of an inch, and in Bhola and Patuakhali 4.28 and 5.49 inches respectively. State of standing crops generally good, but some damage has been done both to the <i>aus</i> crop and the <i>amun</i> seedlings by rise of water. Common rice selling at about 18 seers per rupee.
	21 Mymensingh „ 23, '90	4.00	Weather—rainy and cloudy with occasional sunshine. <i>Aus</i> and jute are still being harvested. Transplantation of <i>amun</i> is nearly completed. Common rice selling at 13½ seers per rupee.
	22 Chittagong „ 23, '90	2.18	Weather—seasonable. Transplanting of <i>amun</i> and reaping of <i>aus</i> paddy commencing. <i>Aus</i> damaged on low lands by recent heavy rain. Rice selling at 16 seers per rupee.
Chittagong Divn.	23 Noakholly „ 23, '90	5.68	Weather—rainy. Sunshine is scarcely seen. Harvesting of <i>aus</i> going on. <i>Amun</i> is being transplanted. Price of <i>amun</i> rice 18 seers and of <i>aus</i> rice 15 and 16 seers per rupee at Feny subdivision.
	24 Tipperah „ 23, '90	4.67	Weather—seasonable; frequent showers; cool and cloudy. Three-fourths of <i>aus</i> crop reaped. <i>Amun</i> thriving. Half of the jute crop cut in the Sudder subdivision. Prospects of standing crops continue good. Prices stationary.
	25 Chittagong Hill Tracts „ 21, '90	0.79	Weather—cloudy with occasional sunshine and rain throughout the week. Harvesting of early <i>jum</i> paddy continues. Cotton progressing. Transplanting in low lands continues. Common rice being sold at 12 seers 15 chittacks per rupee.
BEHAR.	Hill Tipperah „ 23, '90	1.64	Weather—seasonable. Transplanting of <i>amun</i> still going on. Prospects of jute and sugarcane not favourable. <i>Jum</i> crops doing well.
Patna Divn.	26 Patna „ 23, '90	4.54	Weather—cloudy and showery. Transplantation of paddy going on vigorously. Sugarcane doing well. Prospects of <i>bhadoi</i> crops not good, much injury having been done by excessive rain and floods. Prices of food-grains almost stationary.
	Behar „ „	1.21	
	Dinapore „ „	0.67	
	Barh „ „	1.70	
	27 Gya „ 23, '90	7.01	Weather—rainy and cloudy. Paddy transplantation almost finished. <i>Morus</i> being harvested in places. Sugarcane doing well. Prices of food-grains almost stationary.
	28 Shahabad „ 23, '90	2.16	Weather—hot and some wet days. <i>Bhadoi</i> almost all gone in Sudder and Buxar; some still left in Sasaram and Bhabuah. Paddy prospects good. Prices stationary; rice slightly risen in Arrah.
	Buxar „ „	2.16	
	Bhabuah „ „	0.44	
	29 Darbhanga „ 23, '90	2.39	Weather—cloudy with occasional rain. Prospects of <i>bhadoi</i> crops not injured by floods continue favourable. <i>Aghani</i> rice is still being replanted in places where it has suffered from flood. Indigo manufacture not yet over. Prices remain almost stationary.
	Madhubani „ „	4.56	
Bhagalpur Divn.	Somastipur „ „	0.48	
	30 Mozufferpur „ 23, '90	2.28	A good deal of rain during the week, and it was raining at the time of report. Paddy being retransplanted on some of the lands previously inundated. Condition of <i>makai</i> and rice not injured by floods satisfactory.
	Hajipur „ „	2.12	
	Sitamarhi „ „	4.48	
	31 Saran „ 23, '90	1.49	Monsoon weather. <i>Bhadoi</i> crop is almost a total failure on account of the flood. Rice is a complete failure over one-fourth of the district, but elsewhere it is about a 12-anna crop. Indigo prospects poor.
	32 Champarnu „ 23, '90	1.64	Good showers of rain last night (22nd); clouds still hanging in the sky, threatening more rain. Prospects of <i>makai</i> very poor from the effects of flood and excessive rainfall of the past weeks. Slight damage to paddy also reported from some parts, but the crop generally is doing well and is in good condition.
	Bettiah „ „	4.66	
	33 Monghyr „ 23, '90	3.85	Weather—hot and sultry with occasional rainfall. Transplantation of winter rice nearly finished. Harvesting of <i>bhadoi</i> crops still going on in places in the Begusarai subdivision.
	Begusarai „ „	2.79	
	Jamui „ „	3.43	
	34 Bhagalpur „ 23, '90	5.2	Weather—cloudy with a good deal of rain. <i>Morus</i> , <i>khari</i> , and <i>janera</i> are being reaped, but a good deal of the crops on low lands destroyed by floods. Prospects of rice crop good.
	Banka „ „	2.46	
	Mudhepura „ „	3.92	
	Soopool „ „	6.00	
	35 Purneah „ 23, '90	4.36	A good deal of rain with occasional sunshine. <i>Aghani</i> transplantation continues. <i>Bhadoi</i> harvesting going on. Steeping of jute begun. Rivers falling.
	Kishengunge „ „	4.65	
	Arrareah „ „	4.84	
	36 Maldah „ 23, '90	7.18	Heavy showers with changeable winds. In the centre and south of the district a great deal of the <i>bhadoi</i> crop has been damaged by inundation. The jute and rice crops around Kharba and Chanchal are splendid, and the latter has been benefited by the copious rainfall. Common rice selling at from 12 to 18 seers a rupee.
	Shibgunge „ „	1.20	
	Gajole „ „	4.69	
	37 Sonthal Perga. „ 23, '90	7.00	Weather—seasonable. <i>Makai</i> damaged a good deal by rain. In Deoghur only four annas crop expected; elsewhere ten or twelve annas crop. Rice prospects excellent, but of course depend greatly on September rainfall.
	Deoghur „ „	2.81	
	Godda „ „	3.60	
	Jamtara „ „	2.16	
	Pakour „ „	2.83	
	Rajmehal „ „	2.62	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIV.	38 Cuttack Aug. 23, '90	1.60	Rainfall during the week has been insufficient. <i>Satika beali</i> is being gathered. In the Dharmasala thana of the Jajpur subdivision <i>guru beali</i> is withering for want of sufficient rain. In the Tirtol thana of the Sudder subdivision <i>sarad</i> paddy has in some places been attacked by an insect locally known as <i>soomamahi</i> . General prospects fair.
	39 Poonce .. 1, '90	2.26	Weather—seasonable. Pudding and weeding of the <i>sarad</i> crop are in progress. <i>Beali</i> is beginning to ripen. Miscellaneous crops are doing well. Prices of common rice vary from 18 seers 6 chittacks to 21 seers per rupee in the Sudder subdivision.
	Knoorda ..	0.62	
	Banpur ..	0.89	
	40 Balasore .. 23, '90	1.59	Weather—cool and cloudy. Prospects of rice crop generally good, but more rain urgently needed, especially in Bhuddrak subdivision. Number of coolies on relief-works 27.
CHOTA NAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAGPORE DIV.	41 Hazaribagh Aug. 23, '90	3.96	Weather—seasonable. Ample rain all over the district. Transplanting of paddy nearly completed in most places. Prospects very good. <i>Bhadai</i> crops, particularly Indian-corn, greatly damaged by excessive rain. Prices more or less stationary.
	42 Lohardugga .. 23, '90	1.34	Weather—warm and cloudy. Transplantation of winter rice still going on. Prospect of <i>bhadai</i> good. <i>Goondli</i> is being reaped. Prices steady.
	Patamow (up to 18th Aug.)	2.68	
	43 Singhbhum Aug. 23, '90	0.42	Rain holding off in greater part of the district. Weather cloudy and cool. Damage is being done to the rice crop on the "bera" lands by the break in the rains. Rain is badly wanted in all parts but Monorpore and Bharagora. Indian-corn is a full crop, and other <i>bhadai</i> crops are yielding fully.
	44 Manbhoom .. 23, '90	2.03	Weather—seasonable. Prospects of winter rice crop generally favourable. <i>Bhadai</i> crop is not up to the average, and from Govindpur it is reported to be a failure.
	Govindpore ..	0.76	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 26th August, 1890.

P. NOLAN.
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (<i>Sorghum Vulgare</i> .)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
BENGAL.																			
Western Districts.																			
1	Bardwan	14 8	14 8	13 4	...	...	...	12 0	12 0	11 4	15 9	14 10	13 14	...	...	...
2	Bankoora	15 8	15 0	13 8	20 0	20 0	17 8	16 0	15 0	14 8	10 0	18 0	17 4	...	...	...
3	Beerbhoom	16 8	16 8	15 0	...	...	...	13 8	13 8	12 8	16 8	16 8	14 4	...	...	...
4	Midnapore	11 0	12 0	13 6	...	...	...	13 0	13 0	12 0	15 8	16 4	14 0 17 0	...	...	...
5	Hooghly	13 0	13 0	13 0	...	...	...	8 0	8 0	8 0	13 0	13 0	11 0	...	...	...
	Howrah	...	...	...	...	...	...	9 0	11 4	10 0	13 4	13 4	13 0	...	...	...
Central Districts.																			
	Calcutta	13 8	13 6	12 14	17 8	17 8	16 12	9 2	9 10	8 14	13 8	13 9	13 8	18 7	19 8	17 12			
6	24-Pergunnahs	15 0	15 0	14 0	18 0	18 0	17 0	3 0	8 0	7 0	13 4	13 12	13 4	...	...	...
7	Nuddes	15 13	15 10	14 0	20 0	20 0	...	11 6	11 5	10 10	13 0	12 12	12 9	...	...	...
8	Khoolna	...	...	...	...	...	...	11 3	12 4	10 12	13 1	14 0	12 13	...	...	...
9	Jessore	13 4	13 4	13 0	...	...	...	11 0	11 0	11 0	14 0	15 0	13 0	...	...	...
10	Moorshedabad	16 12	16 0	15 0	...	...	...	10 0	11 0	10 0	14 8	15 0	14 0	...	...	...
11	Dinagapore	13 12	15 0	13 8	21 5	15 9	25 0	12 0	13 4	12 0	15 8	15 8	14 8	...	...	...
12	Rajahmhye	15 0	16 8	15 0	22 8	24 0	26 4	12 0	12 12	10 8	14 4	14 4	12 0	...	...	...
13	Rungpore	13 5	13 5	13 5	...	...	...	9 6	9 6	11 0	13 5	13 5	13 5	...	...	...
14	Bogra	15 12	15 15	12 12	...	...	...	12 0	12 0	9 12	15 12	15 15	14 4	...	...	...
15	Pubna	18 0	18 12	16 8	...	...	...	7 2	7 8	7 8	15 6	15 6	13 14	...	...	...
16	Darjeeling	8 0	8 0	10 0	10 0	9 8	10 0	5 0	5 0	5 0	11 0	9 0	11 0	...	...	...
17	Julpigoree	13 0	14 0	11 0	16 0	16 0	16 0	8 0	8 0	8 0	16 0	16 0	13 0	...	...	...
Eastern Districts.																			
18	Dacca	12 0	13 0	13 0	13 0	14 0	26 0	13 0	12 0	10 0	14 0	14 0	13 0	...	...	...
19	Furzedpore	15 0	15 0	15 0	20 0	20 0	16 0	10 0	10 0	9 0	14 0	15 0	12 0	...	...	...
20	Backergunge	...	...	...	...	...	...	11 14	11 14	11 4	13 5	16 0	12 8	...	...	...
21	Mymensingh	11 8	11 4	10 0	...	...	...	11 0	10 4	11 8	13 8	13 6	13 4	...	...	...

A In subdivisions retail prices of salt per rupee are :—Chuna 10 seers, Cutwa 10 seers 6 chittacks, and Haneagunge 10 seers.

B At Rampore Haut retail price of salt 9 seers per rupee.

C In subdivisions retail prices of salt per rupee are :—Contal 8 seers, Tumlook 8 seers, and Ghatal 11 seers.

D In subdivisions retail prices of salt per rupee are :—Serampore 11 seers and Jehannabad 10 seers 10 chittacks.

E In subdivisions retail prices of salt per rupee are :—Baraset 10 seers, Banrhat 9 seers, Diamond Harbour (at Magrahat) 10 seers, Harnackpore 9 seers 2 chittacks, and Dum-Dum 10 seers.

F In subdivisions retail prices of salt per rupee are :—Koochitoo 10 seers, Meherpore 10 seers, Chocadanga 10 seers, and Ranaghat 9 seers 2 chittacks.

G At Satkhira retail price of salt 10 seers per rupee.

H In subdivisions retail prices of salt per rupee are :—Jhenida 9 seers, Magura 10 seers, Narail 9½ seers, and Bongong 10 seers.

I In subdivisions retail prices of salt per rupee are :—Lalbagh 9 seers, Jungipore 10 seers, and Kandi 10½ seers.

ERS OF 80 TOLANS.

MARUA OR CUMBU. <i>Amnistum typhoidum.</i>			MARUA OR RAGI. <i>(Elaeina Corcorae)</i>		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.

[illegible][illegible]

000	000	000	000	000	000
001	001	001	001	001	001
002	002	002	002	002	002
003	003	003	003	003	003
004	004	004	004	004	004
005	005	005	005	005	005
006	006	006	006	006	006
007	007	007	007	007	007
008	008	008	008	008	008
009	009	009	009	009	009

KANGNI OR KANUN, ITALIAN MILLET. (<i>Setaria italica</i> .)			GRAM, CHANA, CHHOLA, KADALAI OR SUNAGA. (<i>Cicer arietinum</i> .)		
Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.

S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
...	20	0	20	0	17	0
...	17	0	17	0	14	0
...	18	12	18	12	16	8
...	17	0	15	8	15	0
...	16	0	16	0	16	0
...	18	12	18	12	16	8

8	0	8	6	17	12	18	1	17	9	16	0
7	0	7	0	12	0	21	0	20	8	17	0
...	...	...	...	21	5	21	5	16	14	...	...
...	...	...	...	13	0	15	0	13	0	...	...
...	...	...	...	16	0	16	0	16	0	...	...
...	...	...	...	23	8	21	0	18	0	...	...
...	...	...	...	19	0	19	3	14	8	...	...
...	...	...	...	21	12	23	8	19	8	...	...
...	...	...	...	12	4	12	4	13	5	...	...
...	...	...	...	16	8	16	14	12	0	...	...
...	...	...	...	18	0	19	0	17	4	...	...
...	...	...	...	11	0	10	8	10	0	...	...
...	...	...	...	17	0	17	0	18	0	...	...

...	...	...	...	12	0	13	0	14	0	...	...
...	...	...	...	16	0	16	0	16	0	...	...
...	...	...	...	13	4	14	8	14	0	...	...
...	...	...	...	14	0	14	0	13	...	...	...

Head-quarter Station Bazars of the Districts of Bengal on the 15th August, 1890.

															WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR TUR, CADJAN PEA. (Cajanus indicus.)			FIRWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	No. A. P.	No. A. P.	No. A. P.				
...	20 0	20 0	17 12	100 0	100 0	100 0	A t	10 4	10 4	10 8	3 8 9	3 8 9	3 11 3	Burdwan.		
26 0	26 0	19 0	18 0	19 0	14 0	240 0	240 0	240 0	B	10 4	10 4	10 0	3 15 0	3 15 0	3 15 0	Bankoora.		
...	18 0	18 8	10 8	160 0	160 0	160 0	C	10 8	10 8	10 8	3 10 0	3 10 0	3 10 0	Beerbhoom.		
...	12 0	12 4	11 4	120 0	120 0	160 0	D	10 8	10 2	10 6	3 13 0	3 12 0	3 13 6	Midnapore.		
...	11 0	11 0	13 0	120 0	120 0	120 0	E	9 0	9 0	9 0	3 12 0	3 12 0	3 11 6	Hooghly.		
...	18 0	18 4	12 8	100 0	100 0	100 0	F	10 0	10 0	10 8	3 11 0	3 11 6	3 10 0	Howrah.		
Central Districts.																		
19 10	19 5	20 0	16 5	16 8	17 12	92 8	92 8	100 0	G	10 7	10 7	10 8	3 9 3	3 9 3	3 9 0	Calcutta.		
...	18 0	17 0	17 0	100 0	100 0	100 0	H	10 4	10 0	10 8	3 7 0	3 8 0	3 9 0	24-Pergunnahs.		
...	19 6	19 0	16 0	...	...	...	I	9 18	9 18	9 2	3 13 0	3 13 0	3 12 0	Nudda.		
...	140 0	160 0	140 0	J	8 8	9 0	9 0	4 2 0	4 4 0	4 0 0	Khoolna.		
...	16 0	18 0	18 0	160 0	160 0	160 0	K	9 2	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.		
...	17 12	18 0	18 12	120 0	200 0	200 0	L	11 4	10 10	10 0	3 8 0	3 12 0	3 10 3	Moorehshedabad.		
...	15 0	15 0	18 0	160 0	168 0	160 0	M	10 0	10 0	10 0	4 0 0	4 0 0	3 15 0	Diugapore.		
...	19 1	19 14	18 8	240 0	240 0	240 0	N	9 0	9 0	9 9	4 2 8	4 2 8	4 0 0	Rajahshye.		
...	10 5	10 5	9 7	100 0	100 0	120 0	O	9 6	9 6	9 7	4 4 0	4 4 0	4 4 0	Rungpore.		
...	90 0	90 0	68 9	P	9 0	9 0	8 10	4 2 8	4 2 8	4 2 8	Bogra.		
...	17 4	18 12	17 4	200 0	200 0	200 0	Q	8 11	8 11	9 2	3 15 0	3 15 0	3 15 0	Pubna.		
18 0	18 0	18 0	8 0	8 0	...	120 0	120 0	120 0	R	6 8	6 8	7 0	6 0 0	6 0 0	5 0 0	Darjeeling.		
...	12 0	12 0	10 0	20 0	20 0	128 0	S	9 0	9 0	9 0	4 4 0	4 4 0	4 2 0	Julpigore.		
Eastern Districts.																		
...	11 14	12 0	16 0	90 0	90 0	160 0	T	9 8	9 8	10 0	4 2 0	4 2 0	3 15 0	Dacca.		
16 0	16 0	20 0	10 0	10 0	14 0	120 0	120 0	120 0	U	10 0	10 0	9 0	3 14 0	3 14 0	4 0 0	Furzedpore.		
...	Khesari husked.			12 13	12 12	12 0	V	10 0	10 0	10 0	3 14 0	4 0 0	3 14 0	Backergunge.		
...	13 0	10 0	13 12	...	...	...	W	9 8	9 8	10 0	4 2 0	4 2 0	4 0 0	Mymensingh.		

J At Thakurgaon retail price of salt 8 seers per rupee.

K In subdivisions retail prices of salt per rupee are:—Nattore 9 seers and Nowgong 9 seers 9 chittacks.

L In subdivisions retail prices of salt per rupee are:—Nilphamari 9 seers and Kurigram 8 seers.

M At Baragunge retail price of salt 10½ seers per rupee.

N At Biliguri retail price of salt 8 seers per rupee.

O In Alipore subdivision (at Fallacatta) retail price of salt 8 seers per rupee.

P In subdivisions retail prices of salt per rupee are:—Manickgunge 8 seers, Moonshagunge 8 seers 14 chittacks, and Natain.

Q In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Purnasore 9 seers, and Bhola 8 seers.

R In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Shorapore 8 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.	DISTRICTS.	QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts—concluded.																			
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	
23	Chittagong ...	11 0	11 0	10 0	...	...	...	11 0	12 0	10 0	14 12	15 0	12 12	...	...	...	...	...
23	Noakholly ...	...	...	...	...	...	...	11 0	12 0	11 8	12 0	13 0	13 0	...	...	...	...	...
24	Tipperah ...	14 8½	14 8½	12 0	...	...	...	8 14	8 14	13 0	13 5	13 14½	14 0	...	...	...	...	...
25	Chittagong Hill Tracts.	...	...	...	...	...	...	11 6½	11 6½	9 11	12 5	12 5	10 0	...	...	...	...	...
	Hill Tipperah	6 0	6 0	6 0	...	...	...	8 0	8 0	8 0	14 0	15 0	12 0	...	...	...	...	...
26	BEHAR.																		
	Patna ...	{ 16 12	Red. 17 12	...	21 8	24 8	20 8	10 8	10 8	10 0	15 12	16 12	13 8	22 0	19 0	20 0	...	...
		{ 15 12	White. 16 12	16 0	20 0	20 0	20 0	11 0	10 0	9 0	15 0	15 8	12 8	...	...	...	...	...
27	Gya ...	15 0	15 8	14 8	20 0	20 0	20 0	11 0	10 0	9 0	15 0	15 8	12 8	...	...	...	...	...
28	Shahabad ...	16 0	15 8	14 8	21 0	21 0	17 8	8 0	8 0	9 0	15 0	15 0	13 4	...	...	...	...	...
29	Durbhunga ...	16 8	15 6	14 13	19 12	19 12	16 9	11 0	12 0	9 6	16 8	15 6	12 5	...	...	...	...	...
30	Mosufferpore ...	17 0	17 0	13 8	20 0	21 0	16 0	11 0	11 0	9 0	14 0	15 0	12 0	...	...	...	...	...
31	Saran ...	15 8	16 4	15 4	19 0	21 8	17 12	8 8	8 8	8 0	13 0	14 0	11 8	...	...	...	...	...
32	Chumparan ...	17 0	17 0	13 8	22 0	25 0	16 0	8 0	8 0	7 0	16 0	14 12	10 8	...	...	...	...	...
33	Monghyr ...	17 13	18 6	15 15	21 0	23 1	16 12	11 8	13 2	10 8	14 11	15 12	11 10	...	...	...	...	...
34	Bhagulpore ...	17 11	17 11	16 6	22 11	21 7	17 10	{ Old. 10 1	{ 10 11	{ 10 11	{ Old. 13 14	{ 13 14	{ 12 10	...	...	...	...	...
								{ Now. 12 10	{ 13 0	{ 10 11	{ Now. 16 6	{ 17 0	{ ...	...	...	...	...	...
35	Purneah ...	18 0	18 0	15 0	...	...	...	15 0	15 0	10 0	17 0	18 0	11 0	...	...	...	...	...
36	Maldah ...	18 8	19 0	16 0	...	...	...	9 0	12 0	10 0	15 8	15 0	14 0	...	...	...	...	...
37	Sonthal Pergba.	13 0	14 0	13 8	...	...	...	13 0	13 0	12 8	17 0	16 0	14 8	...	...	...	...	...
ORISSA.																			
38	Cuttack ...	15 12	15 12	11 13	...	...	...	10 8	10 8	10 8	18 6	17 1	15 12	...	...	...	...	...
39	Pooree ...	10 8	10 8	10 8	...	...	...	13 12	11 13	11 13	18 8	17 1	14 7	...	...	...	...	...
40	Balasore ...	15 0	15 0	14 0	13 0	13 0	13 0	12 0	12 0	13 0	18 0	19 0	17 0	...	...	...	...	...
CHOTA NAGPORE.																			
South-West Frontier Agency.																			
41	Hazaribagh ...	14 0	{ 15 0	{ 12 0	18 0	18 0	...	9 0	9 0	8 0	16 0	16 0	14 0	...	...	...	...	...
			{ 14 0	{ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
42	Lohardugga ...	{ 13 4	Red. 13 12	10 4	16 0	15 0	9 8	14 8	14 0	12	Ordinary. 18 0	18 0	15 0	...	...	...	...	...
		{ ...	White. 8 to	{ ...	...	...	...	...	...	...	Coarse. 20 0	19 0	...	...	...	...	...	...
43	Singbhoom ...	12 0	10 0	10 0	20 0	16 0	12 0	16 0	16 0	16 0	20 0	20 0	20 0	...	...	...	...	...
44	Manbhoom ...	13 5	13 0	11 8	...	...	...	12 0	12 0	11 8	18 0	17 0	15 8	...	...	...	...	...

* Price of common rice at Jajpore 19 seers 11 chittacks and at Kendrapara 21 seers per rupee.

S At Cox's Bazar retail price of salt 8 seers per rupee.

T At Fanny Hat retail price of salt 8½ seers per rupee.

U In subdivisions retail prices of salt per rupee are:—Buxar 10 seers, Samoram 10 seers 12 chittacks, and Bhabuah 9½ seers.

V At Samastipore retail price of salt 10 seers per rupee.

W In subdivisions retail prices of salt per rupee are:—Hajipore 9½ seers and Sitamarhi 10 seers.

А ОН СОВНУ.
Наступи ерпао.
(Идемо.)

A. OR COMPU.
HARVESTING APPARATUS.
(Invention.)

А ОН СОВНУ.
Наступи ерпао.
(Идемо.)

Net preceding re- turn.	
Corresponding re- turn of last year.	
Present return.	
Net preceding re- turn.	
Corresponding re- turn of last year.	

S. Ch. R. Ch. B. Ch. S. Ch. S. Ch.

[illegible]

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Station Bazars of the Districts of Bengal on the 15th August, 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE. (Zea Mays.)			ARHAR OR THUR. CAJIAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.			
Present return.	Next return.	preceding of last year.	Present return.	Next return.	preceding of last year.	Present return.	Next return.	preceding of last year.	Present return.	Next return.	preceding of last year.	Present return.	Next return.	preceding of last year.	
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
...	...	...	...	...	...	110 0	110 0	100 0	10 0	9 0	10 8	3 14 0	3 14 0	3 12 0	Chittagong.
...	...	...	8 0	8 0	8 0	...	...	...	9 0	9 0	9 0	4 0 0	4 0 0	4 0 0	Noakholly.
...	...	...	6 6½	6 6½	9 0	...	...	...	9 6½	9 6½	9 0	4 4 0	4 4 0	4 4 0	Tipperah.
...	...	...	...	...	...	320 0	320 0	320 0	8 0	8 0	8 0	4 8 0	4 8 0	5 0 0	Chittagong Hill Tracts.
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6 0	4 6 0	4 6 0	Hill Tipperah.
Eastern Districts—concluded.															
30 0	...	18 0	22 0	23 0	21 8	120 0	120 0	130 0	10 0	10 0	9 8	3 10 6	3 11 6	3 12 6	BEHAR. Patna.
...	...	...	20 0	20 0	21 8	200 0	200 0	200 0	9 0	9 0	9 2	4 1 0	4 1 0	4 2 0	Gya.
...	...	...	20 0	20 0	12 8	120 0	120 0	120 0	10 0	10 0	10 0	3 15 0	3 15 0	3 14 0	Shahabad.
20 14	22 0	...	19 12	20 14	18 8	160 0	160 0	160 0	11 0	11 0	11 6	3 8 0	3 8 0	3 7 9	Durbhunga.
19 0	19 0	16 0	19 0	20 0	18 0	160 0	160 0	160 0	10 0	10 0	10 0	4 0 0	4 0 0	3 12 0	Mosufferpore.
...	...	17 4	20 4	21 4	20 0	120 0	160 0	160 0	10 0	10 0	10 0	4 0 0	4 0 0	4 0 0	Sarun.
...	...	14 0	21 0	21 0	16 8	160 0	160 0	160 0	10 0	10 0	10 0	3 14 0	3 14 0	4 1 0	Chumparun.
24 2	23 1	17 14	19 15	21 0	17 14	147 0	147 0	128 0	10 3	9 7	9 14	3 11 0	3 10 0	4 2 0	Monghyr.
7 12	24 4	21 7	20 3	20 3	17 10	125 8	126 4	151 8	10 1	10 1	10 1	3 12 10	3 15 6	3 12 6	Bhagulpore.
...	...	...	15 0	15 0	16 0	130 0	130 0	...	9 0	9 0	9 0	4 7 0	4 7 0	4 7 0	Purneah.
...	...	...	...	...	...	120 0	160 0	140 0	9 8	9 0	9 8	4 0 0	4 2 0	4 0 0	Maldah.
20 0	20 0	18 0	21 0	21 0	18 0	200 0	200 0	200 0	9 0	9 8	9 0	3 14 0	3 14 0	4 8 0	Bonthal Pergha.
ORISSA.															
...	...	...	22 5	22 5	15 12	80 0	80 0	80 0	9 0	8 0	11 0	4 6 0	4 7 0	3 12 0	Cuttack.
...	...	...	13 2	13 2	15 12	90 0	80 0	80 0	10 0	11 0	10 8	3 10 0	3 7 0	3 12 0	Pooree.
...	...	...	...	...	...	160 0	160 0	160 0	10 0	10 0	10 0	3 14 0	3 14 0	3 14 0	Balasore.
CHOTA NAGPORE.															
South-West Frontier Agency.															
22 0	21 8	18 0	21 8	21 0	15 0	240 0	240 0	240 0	8 0	8 8	8 0	4 4 0	4 4 0	4 8 0	Hazaribagh.
...	...	...	Big. 16 0 14 0 13 12 Small. 23 0 18 8			120 0	120 0	130 0	9 0	9 0	7 0	4 6 0	4 6 0	5 2 0	Lohardugga.
20 0	20 0	...	21 0	20 0	12 0	320 0	240 0	200 0	8 0	8 0	7 0	4 12 0	4 8 0	5 8 0	Singbhoom.
...	...	...	17 0	17 0	15 0	200 0	300 0	200 0	9 2	9 9	9 0	4 0 0	4 0 0	4 6 0	Nanbhoom.

X At Bottiah retail price of salt 9½ seers per rupee.

Y In subdivisions retail prices of salt per rupee are :—Bagnasari 9½ seers and Jamui 9 seers.

Z At Kishoregunge retail price of salt 8 seers per rupee.

Z1 In Khoorda subdivision retail price of salt 10½ seers per rupee.

Z2 At Bhadruck retail price of salt 9 seers per rupee.

Z3 At Govindpore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARTS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
1	Calcutta ...	B. A. P. 2 11 0	K. A. P. 2 11 8	K. A. P. 2 18 4	K. A. P. 2 0 7	K. A. P. 2 0 7	K. A. P. 2 2 6	R. A. P. 4 1 10	R. A. P. 3 14 4	R. A. P. 4 4 0	K. A. P. 2 11 4	K. A. P. 2 11 4	B. A. P. 2 11 0
2	Serajunga ...	2 4 0	2 2 0	2 2 0	...	...	...	4 12 0	4 8 0	4 2 0	2 10 0	2 8 0	2 8 0
3	Dacca ...	3 4 0	3 0 0	3 0 0	3 0 0	2 18 0	1 8 0	3 4 0	3 4 0	4 0 0	2 18 0	2 18 0	3 0 0
4	Naralingunge ...	...	...	...	...	...	...	3 0 0	2 18 0	3 0 0	2 12 0	2 9 0	2 12 0
5	Chittagong ...	3 8 0	3 8 0	3 12 0	...	...	...	3 8 0	3 4 0	4 0 0	2 12 0	2 10 0	3 0 0
6	Patna ...	3 6 3 2 8 6 2 8 0	3 8 6 2 8 6 2 5 6	...	...	...	...	3 8 0	3 4 0	3 14 0	2 8 0	2 5 6	2 14 6
7	Balassore ...	2 8 0	2 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	2 0 0	2 0 0	2 5 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	2 2 9	2 4 0	2 6 0
9	Outank ...	3 5 0	2 5 0	3 4 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	3 2 0	2 5 0

Calcutta,
The 26th August, 1890.

F 40 BEERS.

MARUA OR RAOL. (Elaeagnus Coriacea.)			KANGNI OR KARUN, ITALIAN MILLET. (Setaria italica.)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
...	4 7 84	4 02	0 9
...
...
...
...
...
1 80	1 80	...	2 2 02	3 03	0 9
...
...
...

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PRICES PER MAUND					
JOWAR OR CHOLU. (<i>Sorghum Vulgare</i> .)			BAJRA OR CUMBU. (<i>Pennisetum typhoides</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
1 14 6	1 13 5	2 0 0	2 15 4	2 12 13	0 0
...
...
...
...
...
1 12 0	2 1 0	1 15 0	...	...	...
...
...
...

in the undermentioned *Marts* of Bengal on the 15th August, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer Arietinum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ARHAR OR THUR. CAJAN PEA. (<i>Cajanus indicus</i> .)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 15 5	2 0 6	2 3 10	1 12 3	1 13 0	1 12 0	2 8 4	2 2 8	2 0 0	0 5 9	0 5 9	0 5 6	3 9 3	3 9 3	3 9 0	Calcutta.
2 4 0	2 6 0	2 14 0	...	...	...	...	...	...	...	...	...	3 11 0	3 12 0	3 14 0	Serajgunge.
3 4 0	3 0 0	2 12 0	...	...	...	3 8 0	3 4 0	2 6 0	0 6 0	0 6 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
3 8 0	3 6 0	2 8 0	...	...	...	3 8 0	3 9 0	2 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 13 0	3 12 0	Naraingunge.
3 0 0	3 4 0	3 5 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 12 0	Chittagong.
1 15 6	1 13 0	1 14 6	1 5 0	...	2 2 6	1 12 0	1 11 6	1 13 0	0 5 6	0 5 6	0 5 0	3 10 6	3 11 6	3 12 6	Patna.
2 12 0	2 12 0	2 12 0	...	...	...	...	...	...	0 4 6	0 4 6	0 4 6	3 14 0	3 14 0	3 14 0	Balasore.
...	...	...	...	...	...	...	...	...	...	...	...	3 10 0	3 7 0	3 12 0	Pooree.
2 10 0	2 10 0	2 0 0	...	...	...	1 10 0	1 10 0	2 5 0	0 8 0	0 8 0	0 8 0	4 6 0	4 7 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 22nd of August 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 1st May 1890.	Average rainfall from 1st May to date.
			Saturday, 16th August.	Sunday, 17th August.	Monday, 18th August.	Tuesday, 19th August.	Wednesday, 20th August.	Thursday, 21st August.	Friday, 22nd August.	Number of rainy days.	of Rainfall week.				
ORTISSA	Purba	Purba	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Khurda	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Bampur	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Falso Point	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Salpara	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
	Outback	Pipili	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Jaratipore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Banki	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Outback	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Kendrapara	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
SOUTH-WEST BENGAL.	Balasore	Jajpore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Dharmasia	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Salpara	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Chandbali	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Bhuddrak	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
	Midnapore	Sorah	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Balasore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Jellapore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Haripodah	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Central	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
24-Pargunnahs	Rangor Island	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Tumlook	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Midnapore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Ghatal	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Kukrahaty	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Garbatta	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Diamond Har- bour	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Canning Town	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Alipore Jail	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Barrackpore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Howrah	Dum-Dum	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Baranagar	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Busehat	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Howrah	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Moheswara	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	(Ootcherah)	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Derampore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Hooghly	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Johannabad	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Sardwar	Quila	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
Burdwan		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Quila		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Kanogunge		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Manbur		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Bankura		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Bishnupore		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Mallara		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Khatra		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Indas		0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Nadua	Kotalpore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Anda	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Gangajalhati	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Rasipore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Sonamukhi	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Bh. Bory	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Hotanpore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Rampore Hazi	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Botpur	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Murari	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Khoolna	Ranaghat	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Kishmaghur	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Chocadanga	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Meherpore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Koachra	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Bathira	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Bagirhat	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Khoolna	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Nakipur	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Rampal	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
Jessore	Narail	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Jessore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Jhenidah	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Magoorah	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Bongong	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Kandi	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Berhampore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Lalmai	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Anugunge	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
	Jungipore	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51	
SOUTH-BENGAL	Chittagong	Lakula	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35'07	24'51
		Jagunge	0'10	0'03	0'05	0'05	0'25	0'25	3'30	4	4'00	10'03	0'64	35	

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 22nd of August 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of August 1890.	Average rainfall from 1st of August to date.
			Saturday, 16th August.	Sunday, 17th August.	Monday, 18th August.	Tuesday, 19th August.	Wednesday, 20th August.	Thursday, 21st August.	Friday, 22nd August.	Number of rainy days.	of Rainfall week.				
EAST BENGAL—contd.	Noakhally	Gournadi	0.31	0.11	.....	0.45	0.21	0.20	0.20	4	1.16	3.79	?	30.06	?
		Baughal	.....	.....	.....	0.04	0.51	0.54	1.04	4	3.55	9.48	?	30.31	?
		Noakhali	3.32	0.34	0.13	0.39	0.18	0.94	1.84	7	6.09	13.23	19.60	67.72	74.34
	Farrakpore	Farrakpore	3.40	1.00	3.20	0.10	0.30	0.70	4.85	7	13.35	22.78	19.49	80.92	75.48
		Barishpore	1.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?
		Ramganj	1.15	0.03	.....	1.50	0.04	0.63	.....	.....	.....	.....	?	?	?
	Dacca	Madaripore	.....	.....	0.78	0.23	1.05	2.85	0.08	5	5.45	9.09	9.40	33.90	33.90
		Farrakpore	.....	.....	.....	.....	0.25	0.31	1.02	3	1.46	5.14	8.78	29.34	30.15
		Goalundo	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Moulvibazar	Moulvibazar	0.23	.....	0.04	1.03	0.15	1.11	0.05	6	3.54	8.60	11.48	46.78	47.20
		Dacca	0.02	.....	0.07	0.11	1.34	0.01	0.04	6	2.19	8.11	9.47	45.85	46.41
		Narainpore	.....	.....	.....	1.17	0.24	1.15	0.21	4	2.75	9.48	8.63	50.51	51.40
	Hill Tipperah	Manickganj	0.10	0.18	.....	0.07	0.41	1.84	1.42	6	4.00	7.79	9.12	40.93	39.54
		Jaydebpore	0.65	0.02	0.07	0.10	0.31	0.14	0.10	7	1.29	7.12	?	44.01	?
		Agartala	0.17	.....	0.20	.....	0.18	0.57	0.12	5	1.64	5.90	9.79	45.00	46.84
	Mymensingh	Comilla	1.04	1.10	.....	0.24	0.18	0.70	0.51	6	4.87	7.88	13.15	46.14	53.73
		Chandpore	.....	.....	.....	.....	0.10	0.20	1.52	3	3.82	10.12	16.15	44.53	51.93
		Brahmunbaria	1.20	.....	0.08	.....	.....	0.20	0.20	4	1.68	3.88	9.70	33.82	40.35
	Mymensingh	Kamachandrapore	1.08	0.74	.....	0.40	0.55	1.20	0.22	6	4.76	10.20	?	57.79	?
		Nasirpore	.....	.....	.....	.....	0.40	.....	.....	.....	.....	.....	?	?	?
		Daudkandi	0.75	0.04	.....	.....	0.10	.....	.....	.....	.....	.....	?	?	?
	Mymensingh	Kasba	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?
		Lakshmi	1.50	.....	.....	1.00	.....	1.57	1.05	4	6.02	8.55	?	37.45	?
		Kishoreganj	1.45	.....	0.27	0.35	0.44	0.37	0.21	6	3.09	8.41	10.11	45.35	47.16
	Mymensingh	Atia (Tangail)	.....	.....	0.23	0.35	0.44	0.37	0.21	6	3.09	8.41	10.11	45.35	47.16
		Mymensingh	0.25	0.04	.....	1.24	0.09	0.51	1.74	6	4.00	8.30	9.85	34.46	40.21
		Jamalpur	.....	1.88	.....	.....	1.30	.....	.....	.....	.....	.....	9.11	40.41	40.41
	Mymensingh	Narail	1.01	0.06	0.46	0.40	.....	0.25	0.10	6	2.57	12.36	10.53	60.11	53.07
		Shobarnakhatip	0.80	.....	0.05	.....	0.00	.....	1.03	.....	.....	.....	?	?	?
		Durgapore	1.25	2.25	0.20	0.20	0.20	1.10	.....	.....	.....	.....	?	?	?
	Mymensingh	Shobarnakhatip	0.21	1.13	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?
		Dowsonganj	0.43	.....	.....	0.25	.....	.....	.....	.....	.....	.....	?	?	?
		?	?	?
NORTH BENGAL.	Pabna	Pabna	.....	0.23	.....	0.51	0.20	0.16	0.35	5	2.37	5.94	8.79	20.55	20.51
		Serajganj	.....	0.08	.....	0.14	1.53	0.07	0.42	6	2.95	5.15	8.00	26.06	24.30
		Sherpore	0.69	.....	0.85	0.45	0.45	0.51	0.51	6	3.76	6.80	8.29	41.68	39.83
	Durga	Nowkhilla	1.20	.....	0.14	0.23	0.05	1.18	1.18	5	3.71	7.42	7.75	40.00	35.90
		Boksa	0.03	1.12	0.02	0.08	1.12	0.04	0.21	7	4.45	8.00	7.88	40.02	41.34
		Panchhiti	.....	1.00	.....	.....	1.86	.....	0.21	3	3.00	9.95	7.41	47.00	30.17
	Rajshahi	Banarsh	.....	0.01	0.11	0.35	0.50	0.44	0.31	6	2.36	5.25	8.63	30.43	33.27
		Natore	.....	0.45	.....	.....	1.73	0.40	.....	4	2.74	6.57	8.43	31.18	31.18
		Nagarn	0.23	.....	0.23	0.41	0.20	0.15	0.34	6	1.71	4.00	6.40	30.77	34.17
	Maidah	Lalpur	0.15	.....	.....	0.23	.....	0.44	0.21	3	0.81	4.61	?	29.08	?
		Munda	0.50	.....	.....	.....	0.22	0.10	0.00	4	1.82	.....	?	?	?
		Maidah	0.55	2.00	0.22	0.37	0.77	1.15	2.42	7	7.14	11.68	6.92	30.20	31.23
	Maidah	Chanchal	0.25	1.70	0.18	1.25	0.45	0.55	1.35	7	5.05	11.47	9.51	30.74	37.4
		Gajol	0.58	3.25	1.08	1.08	0.05	.....	6.30	5	12.17	16.14	?	40.63	?
		Sibganj	.....	0.72	0.10	0.11	0.31	0.50	0.30	6	3.18	6.33	?	40.18	?
	Maidah	Mohadebpore	0.20	.....	.....	0.14	0.13	.....	0.51	4	1.28	3.56	9.21	37.47	37.19
		Churaman	.....	1.70	.....	0.06	0.09	1.50	1.12	5	7.40	12.84	6.90	40.97	33.05
		Baigunge	0.44	2.00	0.50	4.25	0.21	.....	1.02	6	9.93	18.92	8.74	37.90	30.15
	Maidah	Dinaganj	.....	3.54	0.34	1.21	0.12	.....	0.10	5	5.04	11.90	9.30	51.37	44.24
		Raisorchat	.....	2.52	.....	0.51	0.30	.....	.....	5	3.20	5.00	7.08	42.09	36.12
		Thakurgaon	1.10	0.81	1.20	1.19	.....	.....	1.50	5	6.50	12.48	?	61.63	?
	Bangore	Bhawaniganj	0.10	0.50	.....	0.15	0.14	0.20	0.12	6	4.01	8.66	7.20	53.63	41.84
		(Gyachanda)	.....	3.55	0.19	1.52	1.53	0.18	.....	6	5.04	8.00	8.61	40.78	41.57
		Bangore	0.45	1.33	0.63	2.25	0.21	0.23	0.18	7	5.66	8.19	6.70	55.71	52.1
	Jalpaiguri	Kurigram	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Bagdara	1.51	3.15	3.50	1.40	0.25	0.35	0.08	7	10.30	15.57	10.15	60.55	56.74
		(Niphambard)	.....	3.12	.....	2.41	.....	3.00	0.28	6	7.69	13.12	?	51.60	?
	Jalpaiguri	Ulipore	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
		Jalpaiguri	1.53	2.35	3.00	1.45	0.98	0.35	3.55	7	13.54	17.87	12.15	100.50	80.29
		Alipore Dooars	0.10	3.10	1.31	3.93	.....	3.44	0.02	6	15.30	21.64	?	119.00	?
	Jalpaiguri	Falacolla	0.85	0.06	1.19	2.52	0.42	0.04	0.08	7	7.72	8.29	?	10.04	?
		Dohiganj	1.30	2.03	1.94	3.51	0.71	0.12	.....	6	9.91	14.73	?	70.90	?
		Rhagalpore	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Osman Behar.	Rhagalpore	2.80	3.53	0.93	1.44	0.95	0.03	3.07	7	11.83	19.61	?	112.00	?	
	(Naprakatta)	2.88	4.41	1.85	1.40	0.92	0.16	.....	7	14.05	19.94	12.27	80.77	65.53	
	Dinabazar	2.70	3.60	1.75	4.04	2.20	1.00	2.10	7	19.25	26.77	14.55	104.47	85.00	
Darjeeling Hill.	Osman Behar	1.11	2.53	1.00	3.06	0.35	0.23	0.28	7	9.02	15.71	15.08	91.61	75.33	
	Meekinganga	4.12	2.42	2.47	2.10	1.45	0.05	1.13	7	14.05	22.67	10.45	110.78	75.7	
	Matahanga	1.53	3.31	3.87	0.35	1.35	2.40	2.41	7	15.23	30.20	33.70	140.14	130.12	
Darjeeling Hill.	Busa	0.45	1.00	2.32	2.23	0.97	0.34	0.70	7	13.01	18.37	17.05	134.80	77.12	
	Biliguri	0.08	0.31	0.07	2.20	1.72	0.00	3.22	7	9.10	22.07	18.54	112.47	75.01	
	Darjeeling	0.44	0.94	0.21	0.08	0.06	0.40	0.00	7	7.53	15.53	13.45	90.87	66.70	
Darjeeling Hill.	Kalimpong	2.10	1.12	0.40	2.50	2.65	3.67	0.80	7	18.21	30.81	?	140.79	?	
	Kurseong	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	
North Bengal	Kurseong	1.90	0.43	1.32	0.78	0.23	.....	0.45	6	5.81	12.01	11.42	60.79	47.34	
	Araranch	2.25	0.41	0.50	1.05	.....	1.44	.....	6	6.08	11.70	9.03	59.51	41.74	
	Purneah	2.30	0.23	0.05	0.90	0.70	0.67	0.77	7	6.51	11.78	10.10	54.39	55.51	
North Bengal	Gondwara	.....	.....	3.70	.....	.....	.....	.....	1	3.70	0.73	?	59.65	?	
	Bairampore	6.40	2.70	1.30	1.25	0.80	.....	.....	.....	.....	.....	?	?	?
	Natar	.....	3.00	3.40	.....	.....	1.00	1.30	4	11.58	.....	?	?	?
North Bengal	Kaliganj	0.74	3.00	3.94	2.37	.....	0.05	2.30	6	12.34	16.80	8.30	78.00	30.05	
	Maddapora	1.75	0.00	.....	1.00	.....	.....	.....	3	3.41	7.05	8.20	40.80	30.82	
	Sopoo	4.49	0.26	1.45	1.78	0.43	0.52	0.22	7	9.40	11.70	?	?	?	
Durbhanga	Protogangj	0.71	1.91	1.07	.....	1.00	.....	.....	.....	.....	.....	?	?	?
	Tajpore	0.02	0.55												

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 22nd of August 1890—concl'd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 1st of month.	Average rainfall from 1st of month.
			Saturday, 16th August.	Sunday, 17th August.	Monday, 18th August.	Tuesday, 19th August.	Wednesday, 20th August.	Thursday, 21st August.	Friday, 22nd August.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—continued	Chhamparan...	Motihari ...	0'36	0'11	0'47	0'03	0'43	0'10	0'06	4	1'64	8'86	9'01	46'14	28'77
		Bettiah ...	1'29	1'70	1'70	0'03	0'03	0'10	0'06	4	4'66	8'48	9'19	45'83	31'85
		Bagaha ...	1'56	2'45	2'45	0'03	0'03	0'10	0'06	4	5'03	10'57	?	63'73	?
SOUTH BENGAL	Bakura...	Bakura ...	0'25	0'07	1'70	0'03	0'24	1'40	0'77	6	5'03	7'72	?	44'00	?
		Gopalgunge ...	1'83	1'33	0'18	0'18	0'09	1'02	0'31	6	4'06	13'43	9'00	30'46	20'87
		Chuprah ...	0'03	0'45	0'07	0'04	0'09	0'05	0'05	6	0'07	11'02	7'37	43'77	27'04
SOUTH BENGAL	Bhabhabad	Bhabhabad ...	0'45	1'75	1'30	0'03	0'03	0'10	0'05	6	3'73	10'73	7'04	38'23	24'28
		Bhabhabad ...	0'02	0'18	0'03	0'03	0'03	0'10	0'05	6	3'73	10'73	7'04	38'23	24'28
		Bhabhabad ...	0'02	0'18	0'03	0'03	0'03	0'10	0'05	6	3'73	10'73	7'04	38'23	24'28
SOUTH BENGAL	Gya	Aurungabad ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Gya ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Gya ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
SOUTH BENGAL	Patna	Patna ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Patna ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Patna ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
SOUTH BENGAL	Monghyr	Begoonah ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Monghyr ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Monghyr ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
SOUTH BENGAL	South Bhagal-pore.	Bhagalpore ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		South Bhagal-pore.	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		South Bhagal-pore.	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
SOUTH BENGAL	Northal Per-gunnahs.	Rajmahal ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Northal Per-gunnahs.	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Northal Per-gunnahs.	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
CHUTIA NAG-PUR.	Hasaribagh	Pachamba (Girid) ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Hasaribagh ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Hasaribagh ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
CHUTIA NAG-PUR.	Lohardugga	Lohardugga ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Lohardugga ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Lohardugga ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
CHUTIA NAG-PUR.	Singbhoom	Singbhoom ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Singbhoom ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Singbhoom ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
CHUTIA NAG-PUR.	Maabhoom	Maabhoom ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Maabhoom ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06
		Maabhoom ...	0'06	0'06	0'06	0'06	0'06	0'06	0'06	6	0'06	0'06	0'06	0'06	0'06

Explanation.—..... indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 26th August 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
22ND OF AUGUST 1890.**

SETTLED conditions have again prevailed throughout the week, the only notable features of the weather being—the rainfall distribution, which has been the reverse of that of the previous week, viz., scanty in the southern districts and heavy in North Bengal and Behar, and two very shallow depressions which formed, one in the centre of the Bay on the 16th, and the other in the north-west corner on the 19th, both, however, disappearing within a day or two of their first appearance.

Pressure has generally been above the normal and changes very small, but an excess in the west of the Bay was about a tenth of an inch during the latter half of the week, gradients have been steeper than usual, and a moderately strong monsoon current has been steady over the eastern and northern districts of the province. The rainfall in East Bengal has been practically normal, and the rather excessive rain in North Bengal and Behar may be due to the westerly winds blowing in these districts from the 17th to 19th and again on the 22nd. The heaviest rain fell when directions were undergoing change, that is about the 17th, the 20th, and the 22nd, and then pressure was either low or uniform over Bengal, and air motion had probably a larger vertical component than with a normal distribution of pressure. On the 16th there was a widely diffused low-pressure area over the centre of the Bay within which a slight defect obtained, while round the coast there was generally excess of about a twentieth of an inch. The depression extended over part of the Circars and as far east as the Burmah coast, but on the following day, owing to a slow rise of pressure, it had disappeared, a faint cyclonic whirl remaining in South Orissa and the Circars and a ridge of relatively high pressure running east and west over Lower Bengal and the head of the Bay. Squally weather probably occurred during these days in the centre of the Bay, as the sea was rough, first in Burmah and then on the Circars and Orissa coast, and wind velocity rose somewhat at the head of the Bay, but even when strongest it was very little above the average and never worse than a fresh breeze. On the 18th a brisk fall of pressure occurred at Saugor Island and Calcutta, and a slow fall continuing on the following day, a shallow depression appeared in the north-west corner of the Bay with cyclonic winds at a few of the neighbouring stations. It was more diffused on the 20th, but the centre of the wind circulation was still between Saugor Island and False Point, and on the 21st it had practically disappeared, leaving the pressure distribution very uniform over the greater part of the province and steep gradients in the north-east corner of the Bay. Wind velocity again increased at the head of the Bay, but, as before, the monsoon was only of about average strength.

Pressure—Changes have rarely exceeded a twentieth of an inch. A slow rise was almost general during the first two days, followed by a slow fall on the 18th and 19th. On the 20th it again increased moderately except in the north and north-east, where the rise exceeded a twentieth of an inch. This slow upward change continued till the last day of the week, when there was a slow fall. These changes had little influence on the general distribution, which on an average has been slightly above the normal at nearly all stations by amounts varying between two and five-hundredths of an inch, the largest excess being in Orissa and South-West Bengal.

Temperature—Owing to the scanty rainfall and comparatively clear skies in the southern districts, has been above the normal in the south-west of the province, while in Assam, East and North Bengal, and Behar, where heavy rain has been fairly continuous, a considerable defect has been recorded. Excess in Orissa and South-West Bengal is about 1° , and in Chutia Nagpur 3° , while defect in Assam is 2° , in North Bengal and Behar rather over 1° , and in East Bengal 4° .

Rainfall—In the early part of the week practically no rain fell in Orissa and South-West Bengal, and only scattered showers in Chutia Nagpur and East Bengal, but during the last four days more rain was received in these districts, though it became general in East Bengal only. In Behar and North Bengal general heavy rain fell throughout the week, and the mean weekly fall has been largely above the normal. Excess in North Bengal is 3.86, in North Behar 2.43, and South Behar 1.67 inches. The mean fall in East Bengal is very nearly normal, and is below the normal in Chutia Nagpur by .6 inch, in Orissa by 1.32 and South-West Bengal by 1.79 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 22nd of August 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.		Rainy days.		Since 1st of month.		Since 1st of May 1890.			
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.		
Orissa	91.9	75.6	86.3	79.1	82.7	+1.0	1.55	2.87	-1.32	3.0	4.0	1.0	6.55	5.75	52.63	31.09
South-West Bengal ...	95.3	76.3	89.2	78.9	84.1	+0.9	1.36	3.75	-1.79	3.5	4.5	-1.0	6.33	9.63	36.74	24.53
East Bengal	90.1	73.0	86.1	77.0	81.6	-0.4	3.70	3.48	+0.22	5.4	5.3	+0.1	9.33	12.04	33.40	61.16
North Bengal	90.5	74.1	86.3	77.7	82.0	-1.4	6.84	2.89	+3.95	5.3	4.3	+1.0	11.30	9.80	59.39	66.99
North Bihar	85.3	73.6	89.3	77.9	82.7	-1.1	4.64	2.11	+2.53	5.6	3.6	+2.0	9.27	5.25	45.05	31.15
South Bihar	83.4	72.8	87.3	77.6	82.4	-1.3	4.02	2.48	+1.57	5.0	3.7	+1.3	9.63	5.30	39.34	25.67
Chuttia Nagpur	85.4	70.2	82.1	73.5	77.5	+0.3	2.04	3.24	-0.90	4.6	4.9	-0.3	6.01	10.23	54.60	33.99
Assam	90.5	73.0	85.9	76.8	81.4	-2.0										

* Chyabassa not included.

METEOROLOGICAL OFFICE, BENGAL;
The 26th August 1890.

O. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 17th to 23rd August 1890.

MONTH.		Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall per 24 hours.
				Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	°	Inches.	°	%	Inches.
August	17th	29.710	85.2	91.0	11.7	79.3	80.6	80.5	.960	78.0	76		
"	18th	29.709	86.4	92.0	13.2	78.8	84.6	80.5	.985	78.3	82		
"	19th	29.685	84.9	90.0	10.2	78.8	84.3	79.5	.988	77.3	78		0.02
"	20th	29.691	81.9	84.9	6.1	78.8	84.6	81.3	1.025	80.0	86		
"	21st	29.745	81.9	86.9	6.1	77.8	83.6	80.0	.977	78.5	86		0.40
"	22nd	29.741	80.3	82.9	6.3	77.6	78.6	77.5	.931	77.1	95		0.54
"	23rd	29.714	81.1	87.4	16.3	75.8	81.3	79.5	.980	78.6	90		0.35

The mean 10 A.M. pressure of the seven days Inches. 29.706

The mean temperature of the seven days 83.0

The extreme variation of temperature 16.2

The maximum temperature 92.0

The mean 10 A.M. relative humidity of the seven days 85

The total fall of rain from 17th to 23rd August 1890 Inches 1.61

The daily mean temperatures are the crude means of maximum and minimum temperatures.

METEOROLOGICAL OFFICE, INDIA;
The 25th August 1890.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.

Results of the Meteorological Observations taken at the Alipore Observatory from
17th to 23rd August 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
Aug.	17th	152.7	7.0	29.651	84.3	89.4	11.0	78.4	80.1	0.973	78.4	88	S and S by E	89	0.06	Partially cloudy, o, d.
"	18th	152.7	5.5	.617	84.3	89.6	11.3	77.9	80.8	1.006	79.4	86	WSW and calm	26	Nil	Partially cloudy.
"	19th	148.0	0.6	.614	83.4	86.9	7.7	79.2	80.5	1.003	79.3	88	SSE and calm	33	0.04	Chiefly cloudy, o, d.
"	20th	146.4	0.8	.657	82.4	85.6	7.4	78.2	79.4	0.968	78.2	87	SSE and calm	44	0.09	Chiefly cloudy, o, d, a.
"	21st	139.5	1.0	.679	81.9	85.1	8.0	77.1	79.3	.970	78.3	89	SSE and calm	61	0.32	Chiefly cloudy, o, g, d, p, t.
"	22nd	115.0	Nil	.661	80.8	81.8	7.2	74.6	78.8	.960	78.0	91	SSE and SSW	93	0.89	Cloudy. o, g, d, p.
"	23rd	125.5	"	.663	81.3	83.6	6.1	77.5	77.7	.903	76.1	85	SSW and calm	94	0.01	Chiefly cloudy, o, d.

The mean pressure of the seven days Inches.
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.649
 29.592

The total number of hours of bright sunshine Hours.
 The maximum possible number of hours of sunshine 14.9
 89.5

The mean temperature of the seven days 82.6
 The average temperature of the corresponding period for 24 years, S.-G.'s Office 83.1
 The extreme variation of temperature 15.2
 The maximum temperature 89.8

The highest velocity of the wind in one hour Miles.
 9

The highest pressure of wind on one square foot lbs.
 Not measurable.

The mean relative humidity %
 87
 The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 87

The total fall of rain from 17th to 23rd August 1890 Inches.
 1.41
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 3.39
 The total fall from 1st January to 23rd August 1890 38.00
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 45.68

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o, overcast; g, gloomy; d, drizzling rain; p, passing temporary showers; t, thunder; a, dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
 Calcutta, the 25th August 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 9th August 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 9th August 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 17.4 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.5 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years except 1887, *vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	20.7	21.1	16.4	20.8	20.3	20.9	17.4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.		19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.
Burdwan	20.5	12.3	13.7	13.7	Narainganj	10.6	29.0	24.8	16.6
Midnapore	20.4	7.7	15.5	13.9	Chittaxong	4.7	14.1	4.7	4.7
Hughli and Chinsurah	32.6	23.0	14.4	16.4	Comillah	7.7	15.4	16.4	11.5
Serampore	31.4	21.6	27.6	23.6	Patna City	11.4	12.7	14.9	13.3
Utterpara	25.3	18.9	18.9	18.9	Gya	20.0	33.5	17.6	21.9
Howrah	14.3	15.3	17.8	14.3	Arrah	17.9	19.1	13.3	20.3
Bali	8.6	14.0	10.5	7.0	Mozufferpore	15.8	13.4	14.6	17.0
Krishnagar	15.1	11.4	6.7	11.4	Duruhanga	18.0	27.5	19.7	20.9
Banaghat	13.0	12.0	6.0	24.0	Chupra	20.1	11.1	6.0	2.0
Santipore	19.8	10.6	14.0	17.5	Bhawalpore	25.3	18.1	18.1	28.6
Jessore	18.4	6.1	18.4	6.1	Monghyr	33.4	41.8	25.5	38.9
Rampore Beaulah	23.6	18.4	31.6	15.8	Purneah	6.9	20.8	10.4	13.9
Darjiling	22.3	22.3	7.4	37.0	Poori	10.6	18.0	6.3	12.6
Dacca	15.6	9.7	11.0	14.9	Total	19.1	18.2	14.3	17.4

It will be seen that last week the highest birth-rate was returned from Monghyr (38.9), and the lowest from Chupra (2).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 28.3 per 1,000 of the population. The rate of the week is 8.3 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted, *vide* the figures below:—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	36.6	35.7	27.0	25.4	29.1	31.6	28.3

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.		19th July 1890.	26th July 1890.	2nd August 1890.	9th August 1890.
Burdwan	19.8	27.5	19.8	13.7	Narainganj	16.6	16.6	16.6	12.4
Midnapore	20.6	27.0	7.7	15.5	Chittaxong	18.8	18.8	11.7	9.4
Hughli and Chinsurah	19.7	24.6	26.8	18.1	Comillah	26.9	34.5	28.9	7.7
Serampore	45.1	34.3	51.0	51.0	Patna City	14.6	18.8	13.0	20.1
Utterpara	56.6	47.3	37.7	9.4	Gya	32.1	37.6	44.4	55.7
Howrah	15.0	13.7	10.9	20.0	Arrah	28.9	39.5	8.4	20.3
Bali	7.0	21.1	14.0	10.6	Mozufferpore	20.2	33.8	15.8	23.1
Krishnagar	3.8	11.4	6.7	11.4	Duruhanga	32.3	25.3	14.3	34.6
Banaghat	24.0	13.0	24.0	24.0	Chupra	16.1	18.1	11.1	3.0
Santipore	17.5	18.3	17.8	19.3	Bhawalpore	10.0	22.6	14.5	12.7
Jessore	42.8	12.3	12.3	12.3	Monghyr	36.2	25.3	16.4	28.9
Rampore Beaulah	5.8	23.4	15.8	21.0	Purneah	19.4	10.4	13.9	24.3
Darjiling	37.0	32.3	38.9	66.7	Poori	44.1	35.7	33.6	23.1
Dacca	23.4	15.6	27.3	26.3	Total	23.0	23.1	19.3	23.3

It will be seen that last week the highest mortality occurred in the town of Darjiling (66·7), and the lowest in Chupra (3·).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>			<i>Fever.</i>			<i>Other causes.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Gya	...	16·4	Darjiling	...	44·5	Serampore	...	17·6
Arrah	...	9·5	Serampore	...	23·6	Gya	...	14·8
Santipore	...	8·7	Gya	...	22·0	Poori	...	10·5
Durbhanga	...	7·9						
Mozufferpore	...	4·9						
Monghyr	...	3·6						
Patna City	...	2·9						

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·6 from cholera, against 2·1 per 1,000 in the preceding week; ·1 from small-pox, against ·04; 9·6 from fever, against 7·4; 3·5 from bowel-complaints, against 2·4; ·4 from injury, against ·8; and 6·1 from other causes, against 6·4 in the preceding week.

The mortality of last week according to *Sex, Class and Age* was as follows:—

<i>According to Sex.</i>			<i>According to Class.</i>			<i>According to Age.</i>		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	24·3	Christians	...	7·5	Under 1 year	...	184·6
Females	...	22·1	Hindus	...	25·6	1 and under 5 years	...	30·8
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	...	110	Mahomedans	...	18·2	5 " 10 "	...	9·9
						10 " 15 "	...	15·1
						15 " 20 "	...	15·4
						20 " 30 "	...	9·9
						30 " 40 "	...	15·7
						40 " 50 "	...	19·9
						50 " 60 "	...	23·5
						60 years and upwards	...	60·1

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 25th August 1890.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 9th August 1890.

1	2	3	4	5	6	7	8	9	10	11	12																				
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.				MORTALITY ACCORDING TO—														Sex.								
		Males.	Females.	Total.	NUMBER OF—			RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male births to every 100 female births.	DISEASE.							RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of deaths per 1,000 of population per annum in the previous week.	DEATHS.		RATIO PER 1,000 OF POPULATION PER ANNUM.	Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.									
					Males.	Females.	Total.			DEATHS FROM—									Males.	Females.											
										Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.							Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.		
Bardwan	Bardwan	16,063	16,017	32,080	2	7	9	3.0	10.7	28.7	28	...	...	4	2	1	2	9	...	...	6.1	2.0	1.5	2.0	13.7	10.8	6	3	17.3	9.7	173
Midnapore	Midnapore	16,927	16,633	33,560	6	4	9	7.7	6.3	13.9	125	...	1	...	3	...	6	10	...	1.5	...	4.6	...	9.3	15.5	7.7	3	7	9.2	21.6	43
Hughli	Hughli and Chinsurah.	15,336	15,339	31,657	4	6	10	6.0	9.8	16.4	68	...	1	4	3	...	3	11	...	1.6	6.6	4.9	...	4.9	18.1	26.3	6	8	19.7	16.4	120
Serampore	Serampore	12,659	12,937	25,494	8	6	13	15.7	7.9	23.6	240	1	...	12	3	1	9	26	1.9	...	23.6	5.9	1.9	17.6	51.0	61.6	20	6	76.7	24.1	218
	Utterpara	3,466	2,464	5,930	...	2	2	...	16.9	18.9	No male birth.	1	2	9.4	9.4	37.7	...	1	...	31.1	No male death.	106
Howrah	Howrah	63,153	37,680	90,813	13	13	26	6.0	7.4	14.3	91	3	...	16	2	...	8	35	1.7	...	9.1	4.6	...	4.6	20.0	10.9	21	14	30.5	19.3	...
	Bali	7,636	6,979	14,615	1	1	2	3.8	3.8	7.6	100	...	...	2	...	...	1	3	...	...	7.0	...	...	3.6	10.6	14.0	2	1	13.3	7.5	177
Nuddea	Krishnasar	13,363	14,314	27,677	2	4	6	3.8	7.6	11.4	34	...	...	1	2	...	3	6	...	...	1.9	3.8	...	6.7	11.4	6.7	3	3	11.8	11.0	107
	Ranaghat	4,025	4,636	8,661	2	2	4	12.0	12.0	24.0	108	1	...	1	1	...	1	4	6.0	...	6.0	6.0	...	6.0	24.0	24.0	2	2	25.6	23.3	118
	Santipore	15,704	15,979	31,683	6	8	14	8.7	8.7	17.5	100	6	...	2	2	...	1	11	8.7	...	5.3	3.6	...	1.7	19.3	17.6	4	7	15.2	23.6	64
Jessore	Jessore	4,530	3,906	8,436	1	...	1	6.1	...	6.1	No female birth.	...	...	1	1	...	2	...	...	...	6.1	6.1	...	...	12.2	12.2	1	1	16.8	16.2	76
Rajahmundry	Rajahmundry	10,765	9,025	19,791	3	3	6	7.9	7.9	15.8	100	...	...	6	1	1	1	8	...	...	18.1	3.6	2.6	2.6	21.0	15.8	1	7	4.3	40.3	11
Darjiling	Darjiling	4,579	2,439	7,018	2	2	4	14.6	23.2	37.8	66	...	...	6	3	...	...	9	...	...	44.5	22.2	...	...	66.7	66.7	5	4	56.6	85.3	66
Dacca	Dacca	42,783	37,379	80,161	16	7	23	10.4	4.6	14.9	223	1	1	19	8	...	29	6	6	12.3	5.2	...	6.6	25.3	27.2	27	13	22.8	16.7	196	
	Narainganj	7,065	4,966	12,031	3	1	4	12.4	6.1	18.5	200	...	...	1	...	...	2	3	...	...	4.1	...	...	6.3	12.4	16.6	2	1	13.7	10.5	130
Chittagong	Chittagong	13,340	8,790	22,130	1	1	2	2.3	2.3	4.7	100	...	...	3	1	...	4	...	...	...	7.0	2.3	...	...	9.4	11.7	3	1	11.7	8.9	126
Tipperrah	Comillah	8,153	5,353	13,506	2	1	3	7.7	3.8	11.5	299	...	...	2	...	...	3	...	...	...	7.7	...	...	...	7.7	26.9	1	1	6.4	9.7	66
Patna	Patna City	79,762	61,473	141,235	23	19	42	7.1	6.2	13.3	116	9	...	23	11	...	34	2.9	...	6.1	3.6	...	5.5	20.1	13.0	23	20	21.8	18.5	117	
Gya	Gya	38,590	37,831	76,421	15	17	32	10.2	11.6	21.8	38	24	...	33	4	1	38	16.4	...	23.5	2.7	7	14.6	56.7	44.4	39	45	61.6	61.9	83	
Shahabad	Arrah	20,960	22,305	43,265	10	7	17	11.9	8.4	20.3	143	8	...	7	...	...	17	9.5	...	8.4	...	...	2.6	20.3	8.4	11	6	27.3	13.9	196	
Mossurpore	Mossurpore	18,064	19,658	37,722	8	9	17	6.1	10.9	17.0	65	4	...	6	4	1	19	4.9	...	7.2	4.9	1.3	4.9	23.1	15.3	10	8	22.5	23.6	94	
Durbhanga	Durbhanga	33,774	33,323	67,097	24	14	38	15.9	11.0	26.9	171	10	...	18	5	...	33	7.9	...	14.2	3.9	...	8.6	24.6	16.5	26	19	35.5	30.6	125	
Saran	Chupra	25,116	26,354	51,470	2	1	3	1.0	1.0	2.0	100	2	...	...	...	...	3	3.0	...	...	...	...	...	2.0	11.1	1	2	5.1	3.9	64	
Bhagalpore	Bhagalpore	29,640	27,813	57,453	20	6	26	15.1	5.4	20.5	333	...	...	8	...	...	14	...	...	7.2	...	...	8.4	12.7	14.5	6	3	10.5	15.0	70	
Monghyr	Monghyr	26,184	26,306	52,490	18	25	43	16.3	22.6	38.9	74	4	...	13	4	2	19	3.6	...	11.8	3.6	1.3	8.1	28.9	15.4	17	15	31.4	26.6	116	
Purneah	Purneah	8,463	6,563	15,026	2	2	4	6.9	6.9	13.8	100	...	...	3	2	1	7	...	...	10.4	6.9	2.4	2.4	24.3	13.9	5	2	30.7	15.9	198	
Puri	Puri	13,347	11,537	24,884	2	4	6	4.2	8.5	12.6	50	...	...	2	4	...	11	...	...	4.2	8.4	...	19.5	23.1	23.6	5	6	19.6	27.0	79	
Total		156,268	151,688	307,956	186	164	350	9.2	8.2	17.4	113	73	3	196	72	5	131	475	8.6	1	9.6	3.3	4	6.1	28.3	19.2	258	217	34.3	22.1	110

		MORTALITY ACCORDING TO—																																		
DISTRICTS.	NAMES OF MUNICIPALITIES.	Class.										Age.																								
		DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.										RATIO PER 1,000 OF POPULATION PER ANNUM.														
		Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 30 years.	30 and under 40 years.	40 and under 50 years.	50 and under 60 years.	60 years and upwards.					
Bardwan	Bardwan	7	2				15.4	10.1								2	1	3	3																	
Midnapore	Midnapore	9	1				18.0	7.2									1	1	2	3										18.1	11.3	63.5	165.3			
Hughli	Hughli and Chinsurah	9	2				18.5	16.9														160.0			15.0					7.1	9.4	27.9		66.2		
Serampore	Serampore	26	1				21.5	55.4															46.9									40.0	175.5			
	Utterpara	1					9.3										1		5	1	6	512.7	115.2				23.4	23.8	9.7		77.1	27.2	224.3			
Howrah	Howrah	24	11				18.3	27.9														323.0														
	Ball	2	1				7.8	39.7														126.0	37.5	6.3	15.8	7.1	11.5	13.5	22.1	16.9	69.3					
Nuddea	Krishnagar	4	3				11.2	12.6																												
	Ranaghat	4					23.4															209.7								12.1	21.9	24.7				
	Santipore	7	4				17.6	23.3														251.2								33.4		71.8				
Jessore	Jessore		2					27.2														61.6	17.9							70.1		14.8	46.2	79.4		
Rajshahye	Rampore Beaulah	8	3				26.3	15.9																						34.0		92.4				
Darjiling	Darjiling	9					101.9															128.1	30.7	25.0	25.0					10.4	43.4		54.0			
Dacca	Dacca	24	15				31.0	19.8									8	4					161.7					243.8	82.0	56.5			207.7			
	Narainganj	1	2				8.2	10.9														219.3	24.2			6.6	14.2	10.2	35.7	21.0	32.0	46.7				
Chittagong	Chittagong	1	1				65.3	0.0	6.8													180.4											159.5			
Tipperah	Comilla	1	1				8.7	7.0														98.4								15.0	23.0		63.8			
Patna	Patna City	61	11				22.3	14.0									14	9	3	6	1			30.8	31.9											
Gya	Gya	71	12				61.6	38.8																												
Shahabad	Arrah	12	5				20.1	21.0									16	9	0	4	3	10	6	8	8	13	464.8	73.7	44.0	30.9	22.8	25.3	24.5	42.6	63.3	181.3
Mosuffepore	Mosuffepore	14	5				24.2	20.8									2	1	2	1	1	6	1	2		1	80.7	11.7	20.3	11.8	16.2	39.7	8.1	22.2		18.0
Durbhanga	Durbhanga	37	7				39.7	20.7									3	6			4															
Saran	Chupra	3					5.9										10	6	4	8	2															
Bhagulpore	Bhagulpore																																			
Monghyr	Monghyr	10	6				13.1	12.1																												
Monghyr	Monghyr	25	7				29.1	29.0									3	1	1	1																
Purneah	Purneah		4	3			22.7	27.0																												
Poori	Poori		11				21.3																													
TOTAL		1	371	103			7.5	25.5	18.3			95	55	21	23	24	40	53	48	35	76	191.6	30.3	9.0	15.1	13.4	9.9	10.7	19.9	23.5		60.1				

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 25th August 1890.

W. H. GREGG, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 23rd August 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 23RD AUGUST 1890.			WEEK ENDING SATURDAY, THE 24TH AUGUST 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	350	76,125	1,228	191	46,575	704
Jute	79	20,675	418	44	20,850	358
Firewood	118	51,625	796	104	58,700	889
Other articles	732	1,86,140	2,528	712	1,59,675	2,218
Total	1,279	3,34,565	4,965	1,051	2,83,800	4,169

Bengal Central Railway.

*Abstract of principal commodities carried over the Bengal Central Railway during the month of
June 1890, as compared with the same month of the previous year.*

STAPLES.	1890.		1889.		Total.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.		
Coal	503	.....	1,463	5	1,159	1,468	.....	320
Cotton, raw	.....	3	.....	19	3	19	.....	16
Cotton twist and yarn—								
1.—European	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian	.....	.....	.....	.....	.....	.....	.....	.....
Cotton piece-goods—								
1.—European—								
a.—In bales and bundles	253	.....	240	3	253	252	3	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
2.—Indian—								
a.—In bales and bundles	.....	.....	.....	.....	.....	.....	.....	.....
b.—In boxes	.....	.....	.....	.....	.....	.....	.....	.....
Grains—								
1.—Rice	8	49	16	84	57	100	.....	43
2.—Others	34	40	24	540	50	570	.....	647
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Skins of sheep, &c.—	.....	21	.....	27	21	27	.....	6
a.—Dressed	.....	.....	.....	.....	.....	.....	.....	.....
b.—Undressed	.....	.....	.....	.....	.....	.....	.....	.....
Jute—								
1.—Raw—								
a.—Unscoured	.....	50	.....	53	50	55	27	.....
2.—Gunny-bags and cloth	12	35	13	8	48	21	27	.....
Metals—								
1.—Copper, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
2.—Brass, unwrought	.....	.....	.....	.....	.....	.....	.....	.....
3.—Brass and copper, wrought	43	5	71	12	48	83	.....	35
4.—Iron	.....	.....	.....	.....	.....	.....	.....	.....
5.—Tin	.....	.....	.....	.....	.....	.....	.....	.....
6.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Oil—								
1.—Kerosine	93	.....	93	.....	93	92	8	.....
2.—Others	216	.....	97	.....	210	97	119	.....
Oilseeds—								
1.—Linseed	.....	.....	.....	.....	.....	.....	.....	.....
2.—Rape and mustard	.....	.....	.....	.....	.....	.....	.....	.....
3.—Til or gingelly	.....	.....	.....	.....	.....	.....	.....	.....
4.—Niger	.....	.....	.....	.....	.....	.....	.....	.....
5.—Castor	112	254	90	673	430	708	.....	280
6.—Peanut	.....	.....	.....	.....	.....	.....	.....	.....
7.—Others	.....	.....	.....	.....	.....	.....	.....	.....
Provisions—								
1.—Betel-nuts	.....	545	1	123	545	194	521	.....
2.—Others	11	23	47	81	42	124	.....	46
Railway plant and rolling-stock	.....	.....	51	66	86	97	.....	13
Salt	390	.....	301	.....	390	301	89	.....
Sugar—								
1.—Drained	44	256	6	1,022	300	1,028	.....	724
2.—Undrained	29	26	23	40	64	63	1	.....
Tobacco	.....	.....	.....	.....	.....	.....	.....	.....
All other articles of merchandise—								
1.—Unmanufactured	1,031	723	1,479	258	1,816	1,737	79	.....
2.—Manufactured	.....	.....	.....	.....	.....	.....	.....	.....
Total	2,758	5,283	4,022	2,990	5,812	7,021	800	2,000

Comparative Statement of the principal commodities carried over the Bengal Central Railway during the month of June 1890.

INCREASES.						Tons.
Betel-nuts	...	...	...	...	...	521
From the Bengal Central Flotilla Company.						
DECREASES.						
Coal	...	...	...	...	...	329
Due presumably to sufficiency of stock for railway and flotilla consumption						
Oilseeds	...	...	...	...	...	326
Khoolna, Nawapara, and Jhikargacha show the principal decreases, which are said to be due to poor crops in the neighbourhood.						
Sugar	...	...	...	...	...	728
Jhikargacha shows the largest falling off. The decrease generally is due to the successful competition of raw sugar from Java.						

F. P. QUINLAN,
Examiner of Accounts.

CALCUTTA, the 23rd August 1890.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 18th August 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	227,691	2,31,732 3 0	19,72,083 80	4,17,407 3 0	17,068 6 8	6,00,207 11 8	65,421	76,958	142,379
Or per mile of railway	...	151 14 0	...	273 10 7	11 3 0	436 12 1	...	...	...
For previous 6 weeks of half-year	1,328,000	13,11,980 3 0	1,03,14,937 80	23,50,189 14 0	1,07,421 9 3	30,75,561 10 3	372,692	443,000½	815,701½
Total for 7 weeks	1,555,691	15,43,962 6 0	1,21,90,071 20	20,73,037 0 0	1,24,489 15 11	45,61,829 6 11	438,113	519,967½	958,080½
COMPARISON.									
Total for corresponding week of previous year	235,062½	2,16,894 0 11	19,74,374 30	3,06,196 13 0	13,110 1 3	6,20,701 8 2	65,510	79,093	144,603
Per mile of railway corresponding week of previous year	...	141 13 7	...	200 1 0	9 14 6	410 13 1	...	...	...
Total to corresponding date of previous year	1,701,323	16,36,476 7 6	1,32,72,085 20	31,90,045 0 0	1,19,367 10 1	40,54,088 1 7	435,006	506,083	1,041,089

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1889.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
1,525½	6,20,701	411	1,525½	6,00,207	437	1,525½	1,09,51,639	557	1,525½	1,54,00,700	507	...	15,20,07

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	9,535	4,744 1 0	37,016 0	1,860 3 0	48 7 0	6,695 11 0	967	629	1,596
Or per mile of railway ...	167	83 10 2	648 0	32 10 10	0 11 11	117 0 11	.....	.....	.....
For previous 6 weeks of half-year ...	57,919	28,708 0 0	2,06,500 20	19,789 3 0	232 0 0	41,771 1 0	5,071	3,589	8,660
Total for 7 weeks ...	67,453	33,552 7 0	2,34,516 20	14,009 5 0	276 0 0	48,606 12 0	6,038	4,218	10,256
COMPARISON.									
Total for corresponding week of previous year ...	8,925	4,501 15 3	52,921 10	2,195 3 0	40 10 0	6,740 12 3	1,160	625	1,785
Per mile of railway corresponding week of previous year ...	156	78 11 3	925 10	34 0 11	0 11 4	117 15 0	.....	.....	.....
Total to corresponding date of previous year ...	78,639	40,705 14 0	3,74,090 20	17,060 3 0	315 15 9	58,960 0 0	6,930	4,573	11,503

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1888.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	6,741	118	57½	6,096	117	57½	1,72,977	151	57½	1,75,210	153	2,283	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	10,466	3,963 15 0	5,170 20	175 11 0	7 6 0	4,147 0 0	923	46	969
Or per mile of railway ...	.....	178 3 6	.....	7 14 4	0 5 3	188 0 1	.....	.....	.....
For previous 6 weeks of half-year ...	100,389	26,154 12 0	25,423 30	885 11 0	42 15 0	27,063 6 0	5,224	298	5,522
Total for 7 weeks ...	112,855	30,118 11 0	30,613 20	1,061 6 0	50 5 0	31,230 6 0	6,147	343	6,490
COMPARISON.									
Total for corresponding week of previous year ...	10,063½	3,723 2 7	4,012 10	141 0 0	5 1 0	3,869 3 7	927	41	968
Per mile of railway corresponding week of previous year ...	.....	167 5 4	.....	6 5 5	0 3 7	175 14 4	.....	.....	.....
Total to corresponding date of previous year ...	120,632	30,897 14 6	33,125 10	1,117 5 0	28 0 0	32,023 5 6	6,470	283	6,753

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1888.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,969	174	22½	4,147	186	22½	1,14,671	236	22½	1,16,070	261	1,407	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 9th August 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boats.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	183,370	59,940 0 0	5,41,330 0	1,57,390 0 0	10,070 0 0	2,08,000 0 0	22,976	20,788	53,612
Or per mile of railway...	239	78 0 0	708 0	179 0 0	13 0 0	269 0 0	...	...	...
For previous 5 weeks of half-year	686,900	2,32,710 0 0	22,77,880 0	4,88,800 0 0	73,510 0 0	8,49,920 0 0	107,646	146,095	253,741
Total for 6 weeks	870,270	3,46,650 0 0	28,18,710 0	6,24,190 0 0	84,180 0 0	10,57,020 0 0	130,622	176,431	308,053
COMPARISON.									
Total for corresponding week of previous year...	163,723	55,063 0 0	6,96,301 0	1,56,476 0 0	15,711 0 0	3,29,241 0 0	22,301	21,412	53,712
Per mile of railway corresponding period of previous year...	210	74 0 0	919 0	212 0 0	20 0 0	292 0 0	...	...	...
Total to corresponding date of previous year	856,739	2,88,790 0 0	29,08,969 0	5,93,037 0 0	82,477 0 0	10,17,304 0 0	125,224	122,765	267,989

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
767	2,39,241	307	767	2,09,000	271	696	31,52,748	238	761	*23,76,633	224	2,22,669	...

* Audited up to week ending 31st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week...	88,630	9,090 0 0	48,230 0	2,350 0 0	590 0 0	13,630 0 0	3,694	2,090	5,684
Or per mile of railway...	230	75 0 0	388 0	27 0 0	4 0 0	104 0 0	...	...	...
For previous 5 weeks of half-year	132,093	45,590 0 0	1,71,880 0	10,300 0 0	710 0 0	55,600 0 0	17,034	9,706	26,740
Total for 6 weeks	164,712	54,680 0 0	2,14,110 0	13,630 0 0	1,300 0 0	69,630 0 0	20,638	11,796	32,434
COMPARISON.									
Total for corresponding week of previous year...	23,612	9,005 0 0	57,000 0	5,304 0 0	1,062 0 0	15,571 0 0	2,537	2,055	4,592
Per mile of railway corresponding period of previous year...	267	73 0 0	461 0	64 0 0	8 0 0	126 0 0	...	...	...
Total to corresponding date of previous year	171,143	55,100 0 0	2,23,965 0	16,904 0 0	1,294 0 0	73,418 0 0	20,591	12,905	33,496

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
125	15,572	135	125	13,030	104	125	2,52,765	107	125	*2,35,340	99	...	17,623

* Audited up to week ending 31st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	16,490	5,350 0 0	13,910 0	1,060 0 0	120 0 0	6,530 0 0	2,416	650	3,106
Or per mile of railway ...	193	62 0 0	162 0	12 0 0	1 0 0	76 0 0	...	...	...
For previous 5 weeks of half-year ...	63,630	21,110 0 0	56,900 0	5,340 0 0	610 0 0	27,060 0 0	11,414	3,222	14,666
Total for 6 weeks ...	79,910	26,460 0 0	70,710 0	6,390 0 0	740 0 0	33,590 0 0	13,828	3,942	17,770
COMPARISON.									
Total for corresponding week of previous year ...	12,106	3,837 0 0	9,815 0	743 0 0	163 0 0	4,753 0 0	2,473	623	3,096
Per mile of railway corresponding period of previous year ...	141	44 0 0	115 0	9 0 0	2 0 0	55 0 0	...	...	...
Total to corresponding date of previous year ...	80,516	23,968 0 0	69,503 0	4,451 0 0	1,435 0 0	29,814 0 0	14,520	4,407	18,927

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
86	4,728	55	86	6,630	76	86	1,04,153	64	86	*1,15,833	71	11,209	.....

* Audited up to week ending 31st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 9th August 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	3,440	1,210 0 0	7,480 0	280 0 0	10 0 0	1,000 0 0	586	177	763
Or per mile of railway ...	126	44 0 0	274 0	14 0 0	1 0 0	36 0 0	...	...	...
For previous 5 weeks of half-year ...	16,000	5,950 0 0	31,580 0	3,290 0 0	60 0 0	9,800 0 0	2,006	1,559	4,565
Total for 6 weeks ...	20,440	7,160 0 0	39,060 0	3,570 0 0	70 0 0	10,900 0 0	2,593	2,136	5,328
COMPARISON.									
Total for corresponding week of previous year ...	3,657	1,364 0 0	4,488 0	276 0 0	24 0 0	1,664 0 0	586	177	763
Per mile of railway corresponding period of previous year ...	135	50 0 0	163 0	10 0 0	1 0 0	61 0 0	...	...	...
Total to corresponding date of previous year ...	17,615	6,623 0 0	43,078 0	3,577 0 0	180 0 0	9,780 0 0	3,308	1,976	5,360

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
27½	1,664	61	27½	1,600	58	27½	85,318	66	27½	*86,998	71	1,590	.....

* Audited up to week ending 31st June 1890.

BENGAL AND NORTH-WESTERN AND TIRHOOT STATE RAILWAYS.

(COMBINED SYSTEM.)

Approximate Return of Traffic for the week ending 8th August 1890, on 691 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat earnings.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week on 691 miles open ...	74,123	Rs. 25,084	Mds. 2,51,882	Rs. 21,926	Rs. 5,189	Rs. 32,179	11,708	10,898	22,606
Or per mile of railway ...	107	36	364	32	2	70*	.....	.....	.....
For previous 4 weeks of half-year ...	363,392	1,39,438	12,13,816	1,33,906	29,621	3,03,145	55,868	55,363	1,11,231
Total for 5 weeks ...	437,515	1,64,522	14,65,370	1,34,831	34,900	3,65,343	67,673	100,650	1,33,623
COMPARISON.									
(Audited figures)									
Total for corresponding week of previous year on 619 miles open	(a) 80,551	27,947	3,24,918	30,880	8,604	76,530	2,917	15,278	28,195
Per mile of corresponding week of previous year ...	134	45	527	62	3	108*	.....	.....	.....
Total to corresponding date of previous year ...	467,301	1,62,678	18,14,304	2,18,064	80,315	4,30,857	62,449	81,970	1,44,425

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts.

RECEIPTS FOR WEEK ENDING 10TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 9TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 10TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 9TH AUGUST 1890.			Total increase to 1890-91.	Total decrease to 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
640	(a) 76,530	118	691	82,179	76	940	(a) 17,45,711	180	781'06	16,76,123	127	.....	70,583

(a) The Earnings of Tirhoot and Bengal & North-Western Railways of the corresponding week of previous year have been shown here.

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 26th July 1890...	...	...	5,521
Corresponding period of 1889 ...	...	...	11,323
Decrease ...	...	...	5,802
			Rs. A. P.
Receipts per mile for week ending 26th July 1890	...	...	108 4 1
Corresponding period of 1889 ...	...	...	222 0 6
Decrease ...	...	...	113 12 6
Receipts from 1st to 26th July 1890	...	...	27,894
Corresponding period of 1889 ...	...	...	33,144
Decrease ...	...	...	5,250

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Rs.

Approximate earnings for week ending 2nd August 1890	...	...	2,748
Corresponding period of 1889 ...	...	...	5,786
Decrease ...	...	...	3,038
			Rs. A. P.
Receipts per mile for week ending 2nd August 1890	...	...	53 14 1
Corresponding period of 1889 ...	...	...	118 7 6
Decrease ...	...	...	65 9 4
Receipts from 1st July to 2nd August 1890	...	...	30,643
Corresponding period of 1889 ...	...	...	38,931
Decrease ...	...	...	8,288



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, SEPTEMBER 3, 1890.

OFFICIAL PAPERS.

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RESOLUTION ON THE TRIENNIAL REPORT ON THE ADMINISTRATION OF THE REGISTRATION DEPARTMENT FOR THE YEARS 1887-88, 1888-89, AND 1889-90.

Calcutta, the 25th August 1890.

READ—

The triennial report on the administration of the Registration Department for the years 1887-88, 1888-89, and 1889-90.

Read also—

The statistical returns for the years 1887-88 and 1888-89, with the remarks thereon.

Read also—

The Report for the year 1886-87 and the Resolution thereon.

The Inspector-General of Registration submits the first triennial report in compliance with the instructions of the Government of India contained in Home Department Resolution No. 28—1579-95, dated the 15th July 1887. The Lieutenant-Governor hopes that in future years it may be possible to obtain correct figures and reports from the district offices by the 1st May, so that the Inspector-General may be able to submit his report for the whole province on an earlier date. On the present occasion there has been no delay in Mr. Holmwood's office. The report is full and interesting and at the same time sufficiently concise, and it is illustrated by a useful and instructive map.

2. The following table, which is taken from the body of the report, is of general interest:—

YEAR.	NUMBER OF REGISTRATIONS.				Total receipts.	Total expenditure.	Surplus.	Number of registration offices.
	Affecting immovable property.		Other registrations.	Total.				
	Compulsory.	Optional.						
1884-85	874,730	193,811	110,839	689,380	Rs. 10,74,501	5,54,110	5,20,391	290
1885-86	886,032	211,386*	126,485	723,901	10,84,177	5,68,365	5,15,812	298
1886-87	876,898	194,518*	127,123	698,539	10,81,485	5,61,274	5,20,211	300
Total	1,137,660	599,715	374,447	2,110,822	31,94,163	16,84,749	15,09,414	294 average.
1887-88	405,809	98,664*	180,930	717,993	10,21,982	5,79,206	4,42,776	301
1888-89	534,610	113,470	135,482	783,562	10,88,572	5,89,176	4,99,396	304
1889-90	594,033	147,191	151,484	893,708	11,94,801	6,27,434	5,67,367	307
Total	1,625,043	350,125	413,896	2,389,063	33,14,255	18,05,876	15,08,379	304 average.
Increase	487,383	.....	40,649	284,243	1,20,162	1,19,127	985	10
Decrease	.....	243,558	.....	.....	.....	.....	.....	.....

* Including some deeds the registration of which has since become compulsory under the Bengal Tenancy Act.

The most noticeable figures in the above statement are those that show a decrease in optional registrations affecting immovable property. They are fully explained by Mr. Holmwood, who shows that the decrease is due solely to the gradual introduction of the Transfer of Property Act and to a change in the classification of deeds for the transfer of permanent tenures and holdings of small value by sale or gift. The registration of these was formerly held to be optional, but is now deemed compulsory. In all cases in which sufficient time has elapsed to give these changes their full effect it has been found that optional registrations steadily increase *pari passu* with compulsory ones. There has been a steady increase in the operations of the Department, and its financial position is excellent, the surplus at the close of 1889-90 being larger than that of any previous year. Several new offices have been opened since the close of the year, and the demand for an extension of registration operations still continues.

3. The number of perpetual leases decreased from 78,766 in 1886-87 to 71,642 in 1887-88 and 69,330 in 1888-89, but it again rose to 76,390 in 1889-90. Mr. Holmwood's remarks on this point are of considerable interest and importance. He says:—"There are two great classes of perpetual leases—those given by zemindars to their tenants and those sublet by tenants to others. These two classes fluctuate independently of each other, and the circumstances of each particular district become a factor in determining their variations. But as far as the first class of perpetual leases is concerned, a general rule, such as would be naturally expected, seems to be at work. The amount of land being limited, the settlement by zemindars with their ryots in perpetuity has a tendency to increase up to a certain point, and then to steadily decrease as the majority of the lands become settled. This has actually been observed to be the case in the sub-district of Baraset in the 24-Pergunnahs, where the Sub-Registrar is the most punctual and business-like officer I have under me (which renders his office very popular), and is also a most careful observer and notes facts in connection with registration transactions in the most intelligent manner. He has observed a regular permanent settlement going on during the past two or three years between the zemindars and their ryots, owing to the zemindars finding it difficult to make arbitrary enhancements or ejections under the new law, and the number of registrations under this settlement has already reached its maximum and begun to decline. I have no doubt that this same cause is at work in other sub-districts, where the usual stereotyped explanation is given, that the zemindars find themselves in straitened circumstances owing to a succession of bad harvests; but it is only in particular districts, like those in the Dacca and Chittagong Divisions, where the ryots are prosperous and insist on obtaining some certainty of tenure, that these settlements are at all general." Many of the registrations are, of course, mere paper transactions due to the necessity for re-registration of under-tenures when the ownership of the property is transferred. The disturbance in the ordinary current of land transactions occasioned by the introduction of the Bengal Tenancy Act has rendered it difficult of late years to appreciate the true nature and value of fluctuations in figures of registration of deeds; but the experience of three years of its working

does show that the number of transactions under the head of perpetual leases has steadily increased and tends to reach a certain maximum, after which a decrease may be looked for. The following statement shows the number of perpetual leases registered in some of the important districts since 1882-83, and generally points to the conclusions arrived at by the Inspector-General, although in some districts the individual action of two or three large landholders always affects the statistics, and the bearing of the Tenancy Act upon them is thus prevented from being apparent:—

DISTRICT.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.
Burdwan	604	663	1,012	1,051	1,163	1,118	1,318	1,374
Bankura	1,851	1,699	1,971	2,377	2,554	2,826	2,709	3,270
Midnapore	1,036	1,308	1,478	1,618	2,071	1,604	1,608	1,348
24-Pergunnahs	4,619	4,461	5,661	6,163	6,727	5,890	7,010	7,510
Nuddes	1,713	1,601	1,710	1,669	1,244	1,680	1,666	1,818
Jessore	11,681	11,199	11,315	9,750	6,307	5,703	5,699	4,200
Khulna	2,662	4,575	6,878	6,701	6,876	4,641	5,194	5,310
Dacca	535	798	589	763	899	1,254	1,221	1,317
Furzedpore	6,221	6,078	6,509	6,623	8,038	8,082	7,833	8,810
Backergunge	11,190	10,813	12,069	10,060	10,414	8,088	8,480	8,254
Noakhali	3,831	5,536	7,921	8,117	5,759	5,290	4,555	4,765
Chittagong	16,803	17,248	22,010	23,672	20,487	18,294	10,533	19,027

4. Of the total number of other than perpetual leases, which rose from 187,263 in 1886-87 to 227,686 in 1889-90, 175,231 were counterparts, the percentage of leases being 23.03 as compared with 27.06 in 1886-87, 23.65 in 1887-88, and 23.72 in 1888-89. Any deductions from these figures are dangerous, as District Registrars appear to be doubtful in some cases as to whether kabulyats should be classed as leases, or merely as the counterparts they are, and because pottahs are also frequently entered as counterparts. Moreover, the prevalence of *sar-i-peshgi* and *kurtali* leases, of which no counterparts are given, in the most important districts of Behar, frustrates any attempt at theorizing on these statistics. At the same time it is unsatisfactory to note that some of the District Registrars are of opinion that the low figures for their own districts are due to "the inability of the ryots to exact pottahs from their landlords, and the aversion of zemindars to give pottahs on account of their dignity suffering by so doing, on account of the expense, which they consider unnecessary and the ryots are unwilling to incur, and, lastly, on account of a fear of their ryots obtaining occupancy rights."

5. The number of instruments of mortgage of the value of Rs. 100 and upwards rose gradually from 58,648 in 1886-87 to 77,555 in 1889-90. There was a slight decrease last year in the districts of Rungpur, Dacca, and the Sonthal Pergunnahs. Similar instruments of value less than Rs. 100 also considerably increased during the last three years, the figures of the past year being 130,007 against 72,355 in 1886-87. The increase is in many cases ascribed to failure of crops and the high price of food-grains. An interesting cause of the increase during the past year is reported from Noakhali, where the crops have been good and land operations extensive. The District Registrar supposes that many mortgages of small plots of land have been executed by the ryots who have extended cultivation, for the purpose of buying cattle and agricultural implements. In Sarun, where the circumstances are wholly different, a very similar reason for increase is given. The matter is clearly one for further investigation, and the Inspector-General, who has called for a further report from the District Registrar of Noakhali on the subject, will be requested to notice this point in his notes while submitting the statistical returns for the current year. The increase in deeds of mortgage does not appear to have affected the registrations of obligations for payment of money, including bonds and miscellaneous deeds, such as kabinmahals. The latter rose from 89,795 in 1886-87 to 103,962 in 1889-90. About 82 per cent. of the bonds were of values up to Rs. 100, the rest exceeding that amount. The increase in this case, as in the case of mortgages, is probably due, to a great extent, to the scarcity that affected many parts of Bengal during the past year. The total number of registrations affecting moveable property, excluding wills and written authorities to adopt, increased from 125,188 in 1886-87 to 149,350 in 1889-90.

6. While the aggregate value of property transferred by registered documents increased by more than 520½ lakhs of rupees in 1888-89, it decreased by more than 412½ lakhs during the past year. There was an increase of nearly 11 lakhs in the value of moveable property transferred, but the value

of immoveable property diminished by more than 423 lakhs. It is unsatisfactory to note that no explanation is forthcoming of the wholly unprecedented increase observed last year or of the great fall in the year following. In former years fluctuations in these figures were not considerable, and it is an insufficient explanation to attribute them to general dulness of trade. The Lieutenant-Governor is glad to note that the Inspector-General has called for a special report on this subject, and hopes to hear at an early date what has resulted from a further examination of the details of the statistics now given.

7. Statement XII appended to the report shows that 90,691 transfers of estates and tenures were effected by deeds of sale during the past year against 52,858 in 1886-87 and 81,382 in 1888-89, and that 9.9 per cent. of the purchasers were mahajans, traders or money-lenders, 15.3 per cent. zemindars, 29.6 per cent. intermediate tenure-holders, 24.1 per cent. ryots, and 21.1 per cent. others not specified. The details which show the numbers in each class of purchasers, and the proportion of each to the total, lose much of their value from the fact that certain classes of purchasers, such as mahajans and zemindars, are more likely to register purchases than the lower classes of ryots, and also from the fact that town properties and other estates in the neighbourhood of registration offices must always bear an undue proportion to the total number of transfers registered. The following table compares the sales of ryoti holdings and the number and classes of purchasers during the last four years, and shows a steady increase in the number of such transactions, which is, no doubt, the result of the facilities afforded by the Tenancy Act:—

YEAR.	RYOTI HOLDINGS AT FIXED RATES.							RYOTI HOLDINGS WITH RIGHT OF OCCUPANCY						
	Number of transactions.	PURCHASERS.						Number of transactions.	PURCHASERS.					
		Mahajans, traders, or money-lenders.	Zemindars.		Ryots.	Others.	Total.		Mahajans, traders, or money-lenders.	Zemindars.		Ryots.	Others.	Total.
			Landlords of holdings transferred.	Other landlords.						Landlords of holdings transferred.	Other landlords.			
1886-87	34,721	3,791	786	3,004	13,500	7,315	27,896	53,971	6,486	1,000	3,313	37,082	8,079	58,064
1887-88	30,137	4,830	891	3,939	10,308	7,918	26,856	58,200	7,054	974	3,405	40,086	8,143	60,593
1888-89	31,290	5,124	1,395	3,002	17,523	8,176	30,610	64,440	8,301	1,571	4,434	45,012	8,080	67,148
1889-90	35,343	5,161	1,181	3,615	20,366	8,398	37,540	77,373	10,089	2,000	5,198	54,234	9,377	80,798

8. The number of registrations under sections 12 and 18 of the Bengal Tenancy Act fell from 79,109 in 1886-87, 76,324 in 1887-88, and 47,391 in 1888-89 to 26,780 in 1889-90. The decrease in the past two years is due, to a certain extent, to the discontinuance of the practice of registering deeds relating to fractional portions of permanent tenures or ryoti holdings at fixed rates, where the partition is not made with the landlord's consent in writing. On the subject of sections 12 and 18 of the Act, Mr. Holmwood remarks: "there is not the least doubt that the levy of landlords' fees under those sections is exceedingly unpopular with both landlords and tenants, and that it is evaded in every possible way. The reasons of this unpopularity are not far to seek. The ryots object to pay the landlord's fee because in a great many cases it is refused by the landlord as being beneath his dignity, or as being likely to amount to an admission of an occupancy right of the tenant, and in nearly every case the ryot is not exempted by its payment from the necessity of giving *salami* to his landlord." Sir Stuart Bayley is inclined to agree with the Inspector-General in his deductions from the figures showing a great increase in the number of registrations of leases, mortgages and sales, and to attribute them to the indirect effect of the Bengal Tenancy Act. Mr. Holmwood's interesting comments on these figures and his explanation of them will be brought to the notice of the Revenue Department.

9. Further enquiry will be made into the forgery cases mentioned in paragraph 53 of the report, and the Inspector-General of Registration will be asked for recommendations on the subject of the rules relating to impounded deeds. Mr. Holmwood's remarks as to the power which is given to Rural Sub-Registrars to give gratuitous advice to parties are useful. There can be no doubt

that a free use of this power by sympathetic officers would largely increase the popularity of registration offices among the lower classes.

10. The number of inspections made by the Inspector-General and other officers during the past year was 861 against 868 in 1888-89 and 906 in 1887-88. His Honour is glad to observe that District Registrars have themselves done a fair share of this work, but would impress on them their direct responsibility for the great falling off in the number of inspections by Sadr Sub-Registrars and Sub-divisional Officers. In 16 of the districts that have sub-divisions there were no inspections made at all, and Sir Stuart Bayley is convinced that there can be no adequate excuse for such a failure in duty. The remarks made by the Inspector-General on the subject of *ex-officio* Sub-Registrars at Sadr stations have been noted by the Lieutenant-Governor, and any further representations or special reports on the subject that Mr. Holmwood may think fit to make will receive His Honour's careful consideration.

11. The following table shows the working of Act I (B.C.) of 1876 for the Voluntary Registration of Mahomedan Marriages and Divorces since its introduction:—

YEARS.	Number of districts in which the Act was in force.	Number of offices open on the 31st March.	Number of marriages registered.	Number of divorces other than <i>khulas</i> registered.	Number of <i>khulas</i> registered.	Total number of ceremonies registered.
1876-77	14	77	2,555	492	161	3,118
1877-78	14	109	7,391	1,404	595	9,390
1878-79	14	103	8,161	1,705	771	10,637
1879-80	14	107	7,137	2,007	623	9,857
1880-81	14	106	5,777	1,874	779	8,430
1881-82	14	107	4,951	2,239	667	7,857
1882-83	14	112	5,068	2,247	766	8,081
1883-84	14	112	4,278	2,315	895	7,488
1884-85	14	112	3,918	2,540	957	7,410
1885-86	14	112	3,803	2,422	1,109	7,524
1886-87	14	112	3,926	2,179	1,147	7,352
1887-88	14	112	4,100	2,478	1,090	7,668
1888-89	14	113	4,537	2,819	1,113	8,469
1889-90	14	113	3,959	3,119	1,137	8,215

The districts of Dinagepur, Pubna, Backerganj, Noakhali, Mymensingh, Bogra, Tipperah, and Dacca showed an increase in the total number of ceremonies registered, while the districts of Khulna, Rajshahye, Rungpur, Faridpur, and Chittagong showed a decrease. The Inspector-General of Registration thinks that in the majority of districts the Mahomedan Marriage Registrars are slowly but surely gaining ground, and that in those districts where they do not do so, it is owing to their own inferior qualifications or to the active opposition of interested headmen and zemindars. Mr. Holmwood was lately asked for a separate report with reference to the alleged unpopularity of the Act, and he has given his reasons for holding that it is not in any way unpopular, though in certain places it is neglected and in certain others its effects are destroyed by the opposition of a few hostile zemindars, and the Lieutenant-Governor is inclined to agree with the view he has expressed. Some practical reforms suggested by Nawab Abdul Latif Bahadur, c.i.e., in a valuable minute on the working of the Act, have been adopted by the Permanent Committee and approved by Government, and they will be immediately introduced. The Act is at the same time to be extended, on the recommendation of the Permanent Committee, to the Town of Calcutta and the districts of 24-Pargunnahs, Jessore, and Marshidabad. As regards the Qazis' Act, the Inspector-General writes that the "Act does not seem to gain ground much, though wherever the Qazis are energetic enough to establish Naib Qazis and get hold of the professional persons who arrange marriages there is a marked increase in their operations. This is specially noticed in the districts of Eastern Bengal." The Lieutenant-Governor hopes that district officers will show more interest in the working of this important Act in the future, and notices with

much pleasure the commendation bestowed by the Inspector-General on the admirable work done by Baboo Nil Ratan Mookerjee in Mymensingh.

12. Mr. Blyth was in charge of the Department throughout the past year, with the exception of a few days of the closing month, and was relieved by Mr. Holmwood, the present Inspector-General, on the 16th March 1890. The thanks of the Lieutenant-Governor are due to Mr. Holmwood for his careful and interesting report. The names of the officers specially commended by the Inspector-General will be noted in the Appointment Department.

ORDER.—Ordered that a copy of this Resolution be forwarded to the Inspector-General of Registration for information and guidance.

Ordered also that extract paragraph 8 of the Resolution and extract paragraph 51 of the Report be forwarded to the Revenue Department for information.

Ordered also that a copy of the Resolution, together with a copy of the Report, be submitted to the Government of India, in the Home Department, for information.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,

Offg. Chief Secy. to the Govt. of Bengal.

FLOODS IN THE DISTRICT OF SARUN.

REVENUE DEPARTMENT.

Dated Yacht Rhotas, 26th August 1890.

RESOLUTION.

Read—

Letter No. 28R, dated the 9th August, 1890, from the Commissioner of the Patna Division, asking the sanction of Government to his authorising the Collector of Sarun to make advances under the Agricultural Loans Act and the Land Improvement Advance Act to the extent of Rs. 15,000 in addition to the sum of Rs. 10,000 already assigned to that district on account of heavy inundations.

Read—

Letter No. 150³⁸⁹ Fam., dated the 12th August, 1890, to the Commissioner of Patna, approving of his proposal to authorise the Collector of Sarun to make the advances if the Commissioner is satisfied, on receipt of the Collector's report, that advances to such an extent are necessary.

Read—

Letter from the Commissioner of Patna, No. 505G, dated the 14th August, 1890, submitting a report from the Collector of Sarun on the inundations.

Read—

A letter, dated the 24th August, 1890, from the Commissioner of Patna, submitting a further report from the Collector of Sarun on the inundations and the measures he has taken, and is taking, for the relief of distress.

Mr. Bourdillon has shewn both energy and organising capacity in the arrangements made by him for the relief of the distress caused by the floods. The measures taken within the town of Chupra itself are well conceived, and the Lieutenant-Governor was glad to see, on his visit of inspection, that they had been efficiently carried out. The expense has hitherto been met from municipal funds, from money raised by private subscription, and by the diversion to this purpose of a sum collected for His Honour's reception, a transfer most pleasing to Sir Stuart Bayley. But if a moderate grant should hereafter be required from Government, it will be very willingly given.

In the interior it would appear from the eagerness with which grain sent from Chupra by boat was purchased that there is real distress, which all residents will not be able to provide for by buying grain. The Lieutenant-Governor is, moreover, inclined to doubt whether the mahajans will advance to all ryots, now that the usual security has disappeared with the loss of the crop on the ground, and also whether all labourers will be supported, as the best of them will doubtless be, by their usual employers. It seems desirable to establish a village agency for ascertaining the facts, and administering relief where necessary; also for co-operating with the officers whom the Collector proposes to depute to examine applications for loans. These may be freely given, where required, up to the amount of the Government grant for the purpose, and the proceeds may without objection be applied to the support of the ryots, and their cattle. Very small loans may occasionally be made to labourers, on such security as they can offer. The result of the enquiries made by the village agency will indicate how far gratuitous relief is needed; where required it should not be withheld.

The Lieutenant-Governor desires that the additional arrangements now ordered should be made promptly, and does not contemplate their continuance for any length of time. They are applicable in full only so long as the labourers are deprived of work by the effects of the flood, and may be curtailed when the waters subside. The loans will, no doubt, be necessary at a later period, to ease the pressure caused by the loss of the crop.

ORDER.—Ordered, that a copy of the Resolution be forwarded to the Commissioner of the Patna Division for information and for communication to the Collector of Sarun.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 30th August, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
Western Districts.			
BURDWAN DIV.	1 Burdwan Aug. 30, '90	0.57	Weather—cloudy and hot. Sugarcane not bad. <i>Aus</i> promising. <i>Amun</i> in good state. Prices of common rice:— <div style="float: right; text-align: right;"> <i>Srs.</i> Burdwan 15 Culina 14 Cutwa 14½ Ranigunge 15½ } per rupee. </div>
	... Culina ...	0.18	
	... Cutwa ...	0.58	
	... Ranigunge ...	1.36	
	2 Bankoora „ 30, '90	1.15	Weather—cloudy with occasional light showers. More rain wanted for <i>aus</i> as well as for <i>amun</i> crop on high lands. Prospects favourable. Extent of rice sowing this year in the Sudder subdivision estimated at 16 annas. Common rice selling at 19 seers per rupee at Sudder and 18½ seers at Bissenpore.
	3 Birbhum „ 30, '90	4.50	Weather—seasonable. Prospects of all crops—early rice, late rice, and sugarcane—are at present exceptionally good. Prices of rice continue at from 16 to 18 seers per rupee.
	... Rampore Haut ...	3.55	
	4 Midnapur „ 30, '90	Nil	Some rain in south of district. Prospects of rice crop fair. More rain wanted throughout district. Demand for canal water increasing. Prices of common rice:— <div style="float: right; text-align: right;"> <i>Srs. Ch.</i> Sudder 16 0 Contal 16 0 Tumlook 14 3 Ghatal 16 0 } per rupee. </div>
	5 Hooghly „ 30, '90	1.48	Weather—cool with showers. State and prospects of crops excellent. More rain required for <i>amun</i> rice in the Serampore subdivision. Prices of common rice:— <div style="float: right; text-align: right;"> <i>Srs.</i> Sudder 13 Serampore 16 Jehanabad 16 } per rupee. </div>
	... Serampore ...	0.52	
	... Jehanabad ...	1.29	
	Howrah „ 30, '90	Figures not given.	Weather—showery. More rain wanted in north of district. Transplanting of <i>amun</i> not yet finished. Condition of crops generally on the whole satisfactory. Price of common rice 13 to 14 seers per rupee.
Central Districts.			
PRESIDENCY DIV.	6 24-Pergha Aug. 30, '90	2.10	Weather—seasonable. Prospects of standing crops good. Transplantation of <i>amun</i> rice still going on. Prices stationary.
	7 Naddea „ 30, '90	1.50	Weather—seasonable. <i>Aus</i> paddy on high land is being cut and is in good condition. The crops on low lands have been destroyed by the floods.
	... Kushtan ...	1.58	
	... Meherpore ...	0.40	
	... Chuadanga ...	0.59	
	8 Khoolna „ 30, '90	0.28	Weather—sunny and hot in early part of week, rainy in latter part. Excessive rain has done some damage to the crops in the Khoolna thana and to the <i>aus</i> crop in Satkhira, but prospects are still fair.
	... Bagirhat ...	0.62	
	... Satkhira ...	2.16	
	9 Jessore „ 30, '90	2.68	
	... Jhenidah ...	0.44	Weather—hot and cloudy with occasional showers. Much injury has been caused by floods in Bongong, Jhenidah, and Magura to all crops. The <i>aus</i> crop in the greater part of Bongong has been destroyed. More flood water is expected in a few days. Average price of common rice about 18 seers per rupee.
	... Magura ...	2.36	
	... Narail ...	0.11	
	10 Moorshedabad „ 30, '90	0.84	
RAJSHAHY DIV.	11 Dinagepur „ 30, '90	6.01	Weather—seasonable. Considerable destruction of <i>aus</i> and <i>amun</i> in all the lower tracts from flood. Rain wanted for <i>amun</i> . People much inconvenienced by inundation, but distress not much. The Bhagirathce falling slightly.
	... Thakurgaon ...	5.25	
	12 Rajshahye „ 30, '90	0.93	Much rain during the week. Prospects of crops continue favourable. Price of rice unchanged.
	... Nattore ...	2.90	
	... Nowgong ...	1.77	
	13 Rungpur „ 30, '90	2.40	Weather—cloudy and rainy. Flood higher than in last year; it has done some damage to <i>aus</i> paddy which could not be reaped earlier. <i>Haimanti</i> paddy on low lands submerged. Prospect as yet good, if the flood subsides soon.
	... Nilphamari ...	1.56	
	... Kurigram ...	1.66	
	... Gaibanda ...	7.97	
	14 Bogra „ 30, '90	5.00	Weather—cool and cloudy with frequent showers. Jute harvest in full swing. <i>Amun</i> rice is being transplanted. Sugarcane flourishes. Prices still range very high.
	... Sherpur ...	2.91	
	... Nowkhilla ...	2.15	
	15 Pubna „ 30, '90	0.63	Weather—very rainy and cloudy. Transplantation of <i>amun</i> nearly completed. Condition of <i>aus</i> and jute good, and <i>amun</i> and sugarcane crops promising. Reaping of <i>aus</i> and jute not yet finished. Common rice selling at 18 seers per rupee.
	16 Darjeeling „ 30, '90	4.98	Weather—cool and showery. Jute and <i>aus</i> are being cut. Outturn of the latter expected to be 12 annas. Prospects of <i>amun</i> continue good except on low lands. Prices stationary.
	17 Jalpigoree „ 30, '90	7.21	Weather—rainy. <i>Bhadoi</i> crop harvested; transplantation of winter rice completed in Terai; prospects of <i>marua</i> good.
			Weather—wet and cloudy. Transplanting of <i>haimanti</i> paddy and harvesting of <i>aus</i> paddy going on. Prospects generally good. Jute is being cut. Prices stationary.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.—concluded.			
Eastern Districts.			
Dacca Div.	18 Dacca Aug. 30, '90	2.29	Weather—mostly cloudy and rainy. <i>Aus</i> paddy and jute being harvested. <i>Amun</i> paddy thriving. Rivers are rising again rapidly, and <i>aus</i> and jute have suffered to some extent in consequence. Fodder is available, but not in abundance. Common rice sells at from 13 to 15 seers per rupee.
	19 Furreedpur „ 30, '90	3.99	Weather—seasonable. Water rising. State of <i>amun</i> fair. <i>Aus</i> partially damaged. Common rice selling at 13 seers rupee. Fodder scarce; cattle suffering in consequence.
	20 Backergunge „ 30, '90	1.26	Weather—seasonable. Rainfall heavy in Perozpur (5.16 inches), elsewhere much lighter. Outturn of <i>aus</i> crop estimated at 12 annas. Standing crops promise fair, though partially damaged by flood. <i>Amun</i> seedlings damaged by rise of water in some places, but new sowings have done well. Transplantation going on rapidly; an average crop is expected. Common rice selling at about 13 seers per rupee.
	21 Mymensingh „ 30, '90	3.54	Weather—rainy and cool. About three-fourths of the area set apart for <i>amun</i> paddy has been sown and seedlings transplanted. The plants are healthy and very promising. Jute is being harvested. Coarse rice sells at 13½ seers per rupee.
Chittagong Div.	22 Chittagong „ 30, '90	6.04	Weather—seasonable. <i>Aus</i> is being harvested. Transplantation of <i>amun</i> going on. Prospects fair. Common rice selling at 16 seers per rupee.
	23 Noakholly „ 30, '90	4.54	Weather—rainy and cloudy. Reaping of <i>aus</i> crop nearly completed. Transplantation of <i>amun</i> progressing.
	24 Tipperah „ 30, '90	4.09	Weather—seasonable; cool, cloudy and wet. Jute and <i>aus</i> rice are being cut. <i>Amun</i> is being transplanted. Floods considerable in the district, but no serious damage done to standing crops. Prices stationary.
	25 Chittagong Hill Tracts „ 28, '90	4.95	Weather—rainy and sunny throughout the week. Harvesting of early <i>jum</i> paddy continues. Transplanting of late rice crop in low lands nearly finished. Common rice is being sold at 12 seers 15 chittacks per rupee.
BEHAR.	Hill Tipperah „ 29, '90	1.29	Weather—cloudy with occasional showers. Transplanting of <i>amun</i> nearly over. <i>Jum</i> crops promising. Common rice selling at from 13 to 16 seers per rupee.
	26 Patna „ 30, '90	8.27	Weather—very hot. Transplantation of paddy still continues. <i>Morus</i> is being reaped in some places. Prospects of <i>bhadoi</i> crops poor. Sugarcane looks well. Prices of food-grains generally stationary.
	Bohar „ „	2.62	
	Dinapore „ „	9.51	
PATNA Div.	Barh „ „	6.23	
	27 Gya „ 30, '90	10.30	Weather—rainy and cloudy. Paddy transplantation finished. <i>Morus</i> is being reaped in places. Prospect of <i>bhadoi</i> not good. Prices of food-grains almost stationary.
	28 Shahabad „ 30, '90	2.47	Weather—hot but changeable. Paddy prospects continue good. As already reported, scarcely any <i>bhadoi</i> in Sudder and Buzar. A little <i>bhadoi</i> crop in Sasseram and Bhabuah. Prices stationary.
	Buzar „ „	6.37	
Bhabuah „ „	Sasseram „ „	5.10	
	29 Durbhanga „ 31, '90	4.47	
	Somastipur „ „	9.13	Weather—generally cloudy. <i>Makai</i> and <i>morus</i> commenced to be harvested in places. Retransplanting of rice still going on on some of the lands previously inundated. Prospects generally favourable. Price of common rice varies from 14 to 16 seers per rupee.
	Madhubani „ „	4.31	
MORAR Div.	30 Mozufferpur „ 30, '90	6.99	Another rainy week, but it has now cleared up and there is some prospect of dry weather. Condition of rice crop satisfactory, except in low places where damage has been done by floods. <i>Makai</i> ripening; a crop of from 6 to 8 annas will probably be gathered. Prices stationary and much lower than last year.
	Hajipur „ „	3.14	
	31 Saran „ 30, '90	2.70	Monsoon weather. <i>Bhadoi</i> crop is almost a total failure. Rice a complete failure over one-fourth of the district from flood; about a 12-anna crop elsewhere. Indigo prospects poor.
	32 Champaran „ 30, '90	8.80	Weather—fair and cloudy alternately. Heavy rain again during the week. Harvesting of <i>saro</i> rice and <i>kodo</i> commenced. <i>Aghani</i> rice doing well. <i>Makai</i> in ear.
Bettiah „ „	33 Mounshy „ 30, '90	6.65	
	Begusarai „ „	2.90	Weather—cloudy and rainy with sunshine at times. Prospects of winter rice continue favourable. <i>Sama</i> , <i>kaoni</i> , and <i>makai</i> are being reaped in the Begusarai subdivision.
	Jamui „ „	2.47	
	34 Bhagulpore „ 30, '90	4.34	Weather—rainy with intervals of sunshine. Except for portion of the crop in the Sopool subdivision destroyed by floods, the prospects of the <i>aghami dhan</i> are good. <i>Morus</i> , <i>janera</i> , and <i>bhadoi dhan</i> harvests are in progress.
Bhagulpore Div.	Banka „ „	6.01	
	Mudhepura „ „	2.71	
	Sopool „ „	3.25	
	35 Purneah „ 30, '90	3.58	Copious rain throughout the week and cloudy weather. <i>Aghani</i> trans-plantation is still going on in the Purneah and Kishengunge subdivisions. It is doing well in the Arrarrah subdivision. <i>Bhadoi</i> paddy and jute are still being cut; outturn good.
Kishengunge „ „	36 Maldah „ 30, '90	9.70	Weather—generally bright. Heavy rain on 29th. Much damage has been done to <i>bhadoi</i> by inundation. <i>Bhadoi</i> outturn expected to average about 6 annas. Prospects of jute and winter rice good, though in some places they have been slightly damaged. Common rice selling at from 12 to 17 seers per rupee.
	Chanchal „ „	7.29	
	Shibgunge „ „	6.48	
	Gajole „ „	3.06	
Sonthal Pergas. „ 30, '90	37 Deoghur „ „	2.31	Weather—seasonable. Present break in the rains is doing much good. Rice crop is everywhere doing very well, and prospects are excellent. <i>Makai</i> has been more damaged by the rain than was anticipated, and from Deoghur it is reported to be nearly a total failure.
	Godda „ „	11.64	
	Jamtara „ „	0.75	
	Pakour „ „	3.99	
Rajnehal „ „	38 Rajnehal „ „	2.11	
	„ „	0.87	
Rajnehal „ „	„ „	2.03	
	„ „	3.17	

SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 3, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
38	Cuttack	...	Report not received.
39	Pooree	Aug. 28, '90	Weather—seasonable. Transplanting and weeding of <i>sarad</i> going on. <i>Beati</i> is being harvested. Miscellaneous crops doing well. Price of common rice ranges from 21 seers to 18 seers 6 chittacks per rupee.
	Kunorda	...	
	Banpur	...	
40	Balasore	„ 30, '90	Weather—cloudy but rainless. The insufficient rainfall of July and August has spoilt the excellent prospects of June, especially in the Bhadrak sub-division. Number on relief-works 26. Relief-works close tomorrow (31st August).
CHOTA NAAGPORE			
<i>South-West Frontier Agency.</i>			
41	Hazaribagh	Aug. 30, '90	Weather—seasonable. Rain and sunshine alternating. Transplanting of paddy completed in most places, and the crop is doing very well. Prospects of Indian-corn poor. Other <i>dhadoi</i> crops also damaged by excessive rain. Prices stationary.
42	Lohardugga	„ 30, '90	Weather—warm and cloudy. Transplantation of winter rice finished. Prospect of <i>dhadoi</i> is good. Some damage has been caused to <i>maka</i> in Palamow by excessive rain.
	Palamow (up to 25th Aug.)	2-16	
43	Singbhoom	Aug. 30, '90	Rain still holding off in Chybassa and its neighbourhood; in other parts sufficient rain said to have fallen. Excepting in Chybassa thana, where the <i>dera</i> paddy crop is said to have suffered from 2 to 4 annas in extent, all crops are reported to be doing well. Indian-corn and <i>gora</i> paddy are yielding fully.
44	Manbhoom	„ 30, '90	Weather—seasonable. Prospects of winter crops good. <i>Bhadoi</i> crop not favourable; outturn much below the average. No report about indigo outturn yet received. Common rice selling at from 17 to 22 seers per rupee.
	Govindpore	...	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 2nd September 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Results of the Meteorological Observations taken at the Alipore Observatory from
24th to 30th August 1890.

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
		°		Inches.	°	°	°	°	°	Inches.	°	%			Inches.	
Aug.	24th	153.7	6.6	29.654	82.4	87.6	11.1	76.5	78.6	0.928	77.0	84	WSW, SW and calm	71	0.08	Partially cloudy, p.
"	25th	146.1	4.0	656	83.0	86.6	9.2	77.4	79.9	981	78.6	87	SSW, S and calm ...	89	Nil	Chiefly cloudy, a.
"	26th	139.7	3.0	693	82.0	86.3	10.1	78.2	79.4	971	78.3	89	SE by S and S ...	53	0.81	Chiefly cloudy, a, o, d, p, t.
"	27th	147.6	7.7	683	83.0	87.6	11.0	76.6	79.1	946	77.6	84	S, SSE and SSW ...	99	0.08	Partially cloudy, p.
"	28th	136.0	1.0	670	82.9	85.5	6.1	79.4	79.9	980	78.6	87	S and SSW ...	128	0.07	Chiefly cloudy, o, d, p, t.
"	29th	117.3	Nil	663	80.9	84.2	8.5	75.7	79.2	976	78.5	92	SSW, calm and variable.	65	0.47	Cloudy, o, g, d, p, t.
"	30th	147.5	6.7	638	81.3	88.5	12.6	75.9	78.6	940	77.3	87	WSW, calm and variable.	42	0.46	Partially cloudy, o, d, p, a.

The mean pressure of the seven days ... 29.665
 The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.627

The total number of hours of bright sunshine ... 29.0
 The maximum possible number of hours of sunshine ... 88.5

The mean temperature of the seven days ... 82.3
 The average temperature of the corresponding period for 24 years, S.-G.'s Office ... 83.2
 The extreme variation of temperature ... 12.8
 The maximum temperature ... 88.5

The highest velocity of the wind in one hour ... 15
 The highest pressure of wind on one square foot ... Not measurable.

The mean relative humidity ... 87
 The average relative humidity of the corresponding period for 24 years, S.-G.'s Office ... 86

The total fall of rain from 24th to 30th August 1890 ... 2.17
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 2.34
 The total fall from 1st January to 30th August 1890 ... 40.17
 The average fall of the corresponding period for 24 years, S.-G.'s Office ... 48.02

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

a, overcast; g, gloomy; d, drizzling rain; p, passing temporary showers; t, thunder; a, dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA;
 Calcutta, the 1st September 1890.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.														
District.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.										
		Mean barometric height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	Highest during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M. temperature.		
ORISSA.	Pooree	Pooree	29.730	29.751	—	Calm	27.3	80.7	26th Aug.	76.6	27th Aug.	80.4	76.5	82.5	—	80.0	
	Gopalpore	Gopalpore	29.729	29.751	+0.081	SW	26.4	80.2	26th	76.8	23rd	87.4	79.1	83.3	+0.3	82.8	
	Falga Point	Falga Point	29.758	29.748	+0.044	WSW	26.7	80.5	26th	75.6	23 & 26	84.6	77.0	80.8	—1.3	80.3	
	Outlack	Outlack	29.676	29.736	+0.062	WSW	27.9	80.4	26th	75.8	27th	87.1	77.3	82.2	—1.6	81.1	
SOUTH-WEST BENGAL.	Balasore	Balasore	29.674	29.733	+0.048	SSW	167.0	88.4	26 to 28	75.7	24th	86.4	77.1	81.3	0	80.6	
	South-West Midnapore	Bangor Island	29.708	29.734	+0.041	SSW	406	80.7	26th	75.5	26th	86.1	80.1	83.1	—0.2	82.3	
	South 24-Pergunnahs	Midnapore	29.670	29.721	+0.024	S	163.9	80.3	25 & 27	76.1	24 & 26	88.8	77.4	82.1	+0.6	81.9	
	24-Pergunnahs	Calcutta	29.705	29.737	+0.039	SSW	66	87.5	28 & 29	76.7	24 & 27	86.6	77.8	81.7	—0.7	81.4	
	Howrah	Burdwan	29.638	29.734	+0.019	S & SW	109.4	80.6	24 & 27	77.4	29th	83.9	78.9	83.9	+0.3	81.3	
	Hooghly	Bankura	29.395	29.607	+0.027	S & calm	40	80.1	26 & 28	76.6	23rd	86.7	77.6	82.1	+1.6	79.7	
	Burdwan	Raneegunge	29.576	29.711	+0.033	WSW	41.3	80.0	26th	75.4	23rd	87.8	77.8	82.8	+0.3	80.4	
	Bankura	Berhampore	29.639	29.706	+0.013	S	122.7	88.1	24th	77.3	23rd	86.8	78.7	82.8	—0.6	81.2	
	Beerbhoom	Krishnagur	29.670	29.718	+0.039	SSW	160.3	?	?	?	?	?	?	?	?	?	
	West Burdwan	Jessore	29.700	29.734	+0.032	SSW	80.1	80.3	26th	77.4	26th	88.1	78.5	82.3	—0.3	81.6	
EAST BENGAL.	Khoolna	Chittagong	29.730	29.810	+0.044	SSW	124.0	87.1	25th	74.0	24 & 27	86.8	74.6	80.3	—0.6	78.3	
	Chittagong Hill Tracts	Demagiri	—	—	—	—	—	Observations not received.									
	Backergunge	Barrisal	29.737	29.749	+0.048	S	129.0	87.3	27th Aug.	75.8	23rd	84.7	76.8	80.8	—0.8	80.8	
	Noakholly	Noakholly	29.753	29.797	+0.037	SE	178.5	85.0	27th	74.3	23rd	83.6	76.6	80.0	—0.9	79.4	
	Furzedpore	Furzedpore	29.713	29.732	+0.036	S	178.0	86.6	27th	77.9	20th	84.8	76.3	82.1	0	81.2	
	Dacca	Dacca	29.723	29.740	+0.036	S	224.8	86.1	27th	76.3	29th	86.3	78.9	83.8	—0.7	80.6	
	Commilliah	Commilliah	29.741	29.777	+0.036	S	186.3	87.4	28 & 27	72.8	27th	86.8	74.8	80.0	—1.3	78.8	
	Mymensingh	Mymensingh	29.691	29.749	+0.016	SSW	137.9	87.3	24 & 27	76.0	26th	86.3	77.1	81.3	—1.1	79.3	
	Bogra	Bogra	29.647	29.710	+0.039	S & E	70.6	80.3	24 & 26, 27, 28th Aug.	77.1	23 & 25	87.3	78.0	82.6	+0.3	80.7	
	Pubna	Seragunge	29.623	29.720	+0.070	S	137.8	86.1	27th	76.7	29th	85.3	77.3	81.3	+1.6	80.1	
NORTH BENGAL.	Rajshahye	Rampore Beaulah	29.641	29.712	+0.033	S & S.W.	203.2	80.8	26 to 28	78.5	23 & 25	86.0	79.7	82.9	+0.4	82.3	
	Maldah	Maldah	29.634	29.705	+0.036	S	65.7	80.5	27th	76.3	29th	88.7	78.5	83.6	—0.2	81.3	
	Dinapore	Dinapore	29.691	29.712	+0.006	S	41.4	80.6	28th	76.1	29th	87.8	78.8	83.4	+0.1	80.2	
	Rangpore	Rangpore	29.612	29.735	+0.033	S & SSE	94.0	83.8	28th	75.2	29th	87.1	77.3	82.2	—0.3	80.3	
	Julpigoree	Julpigoree	29.440	29.731	+0.029	?	?	86.9	28th	76.1	23 & 24	84.8	74.8	79.7	—2.6	77.4	
	Oooch Behar	Darjeeling Hill Tracts	22.920	—	—0.008	Variable	75.7	63.0	24 to 26	55.6	23th	63.6	56.4	60.8	—1.5	58.6	
	Purneah	Purneah	29.673	29.700	+0.015	Calm	23.6	86.7	28th	75.9	29th	86.8	77.2	83.0	—0.7	80.9	
	North Bhanulpore	Moaniffpore	29.673	29.700	—	ESE	83.6	87.5	24 & 26	74.2	29th	86.8	78.1	83.0	—	79.1	
	Moaniffpore	Durbhanga	29.538	29.708	+0.030	SSW	84.7	85.4	27th	75.8	29th	86.8	78.6	81.2	—2.0	77.9	
	Durbhanga	Mothari	29.476	29.705	+0.032	ENE	113.9	90.2	28th	73.8	29th	86.9	76.7	81.3	+1.8	80.4	
SOUTH BENGAL.	Chumpran	Chupra	29.492	29.686	+0.020	S	80.0	85.3	28th	77.6	24, 26, & 29th Aug.	86.0	78.8	82.6	—1.0	80.1	
	Barua	Dohree	29.545	29.700	+0.023	W	85.5	87.3	28th	74.0	29th	84.7	78.3	80.6	+1.6	78.1	
	Shahabad	Buzar	29.482	29.695	+0.027	N.W.	91.4	85.6	28th	75.3	29th	85.7	76.7	81.3	—2.0	78.1	
		Arrah	29.618	29.715	+0.066	SSW	22.6	85.6	28 & 29	74.6	26th	87.4	77.9	82.2	—1.8	78.9	
	Gya	Gya	29.384	29.708	+0.034	W	105.9	86.6	28th	75.3	29th	86.1	78.7	81.4	—2.8	78.1	
	Patna	Bankipore	29.510	29.685	+0.014	Variable	62.9	81.4	28th	75.7	29th	86.1	77.1	81.6	—2.5	78.1	
	South Bhagulpore	Bhagulpore	29.523	29.685	+0.017	Calm	24.0	86.7	28th	76.0	24th	87.0	77.9	83.4	—0.9	81.1	
	Monghyr	Imoona	29.214	29.712	+0.034	Variable	94.3	86.4	27th	76.7	24th	86.7	77.1	81.4	—0.4	81.1	
	Benthal Pergunnahs	Hazaribagh	27.710	29.735	+0.023	Westerly	162.7	85.9	28th	68.7	29th	81.6	71.7	76.6	—1.4	76.1	
	Hazaribagh	Ranchee	27.643	29.735	+0.031	Variable	132.9	81.5	28th	68.9	29th	82.6	70.2	76.4	—0.4	76.1	
SOUTH BENGAL.	Lohardugga	Chyenass	28.941	29.710	+0.036	WSW	49.4	80.9	26th	74.3	26th	86.0	75.3	81.7	+0.3	77.1	
	Manikhoom	Sibsagar	29.441	29.779	+0.019	SW	—	80.6	27th	74.4	29th	86.7	76.1	81.4	—2.2	78.1	
	Singbhoom	Dhubri	29.517	29.784	+0.017	Variable	90.7	86.7	23rd	74.6	29th	83.7	76.3	80.0	—2.6	78.1	
	Assam	Silchar	29.689	29.794	+0.031	Calm	45.1	88.2	27th	74.3	24, 26, 28 & 29th Aug.	85.2	78.0	80.4	—2.4	78.1	

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the 10 years. The humidity of the atmosphere is expressed as percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numbers are the numerical means or average of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the 10 years. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 29th of August 1890.

DISTRICT OBSERVATIONS.															Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average humidity at 9 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.	RAINFALL.													
				Since 1st of month.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.						
				Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.								
85	9.0	4.57	3.10			11.08			33.16				4.0	Poorce	Poorce	Orissa	
86	4.4	0.05												Gopalpore			
88	8.9	2.17												False Point			
81	8.7	2.90	2.66	2.06	9.56	10.46	-0.90	26.35	34.12	+2.76	3.2	2.8	Outtack	Outtack		Orissa	
87	2.9	0.24		2.00		10.92			34.91		3.9	3.9	Balasore	Balasore			
89	9.9	1.29	1.25	2.97	2.31	12.53	-4.31	23.45	41.00	-7.55	4.3	4.1	Saugor Island	South-West Midnapore			
84	3.4	0.11	1.60	2.01	4.30	13.32	-9.02	33.54	37.54	-4.00	2.7	4.3	Midnapore	Midnapore		Orissa	
86	7.7	1.98	1.10	2.39	7.59	12.45	-4.56	36.89	37.47	-1.58	3.3	4.0	Calcutta	24-Pergunnahs			
86	9.3	0.57	0.47	2.35	5.53	11.46	-5.95	45.09	33.53	+9.57	2.7	4.1	Burdwan	Howrah		Orissa	
91	8.4	1.59	1.04	2.13	6.80	13.68	-6.88	37.08	36.85	-1.23	2.3	4.3	Bankoora	Bankoora			
90	7.9	1.30	2.23	2.53	9.09	12.37	-2.38	44.97	37.37	+7.60	3.3	4.1	Raneegunge	Bankura		Orissa	
91	9.7	2.23	1.55	2.69	9.65	11.23	-1.58	41.63	34.39	+7.24	2.3	4.3	Berhampore	West Burdwan			
9	7.4	1.39	1.23	2.27	7.51	11.41	-3.90	35.12	34.90	+0.22	2.4	4.1	Krishnagar	Mooredabad		Orissa	
91	5.6	2.32	1.39	1.93	5.21	11.48	-3.21	39.17	34.32	+0.85	3.5	3.9	Jessore	Nuddee			
88	5.3	5.79	7.14	4.26	20.61	22.85	-2.24	26.59	36.85	+9.74	5.0	4.7	Chittagong	Jessore		Orissa	
				3.02		16.28			57.88			5.0	Chittagong	Khoulina			
89	7.6	1.44	2.59	2.72	11.04	14.64	-3.00	53.46	52.75	-0.70	2.8	4.7	Demagiri	Chittagong Hill Tracts		Orissa	
91	4.3	6.43	5.19	3.64	23.23	23.19	+0.04	76.81	76.55	-1.74	6.0	5.0	Barrisal	Chittagong Hill Tracts			
89	6.0	2.04	3.75	2.35	9.11	11.50	-2.39	32.97	40.34	-7.47	3.7	4.1	Noakholly	Noakholly		Orissa	
90	9.0	2.09	2.03	2.35	11.23	12.01	-0.49	45.17	43.32	+4.85	4.2	4.2	Furzedpore	Furzedpore			
90	6.4	2.23	2.23	2.61	9.13	14.90	-5.77	46.82	49.40	-2.58	4.5	4.7	Dacca	Dacca		Orissa	
94	8.4	2.56		2.12		12.94			46.66		6.0	5.0	Commillah	Tipperah			
92	8.0	4.41	2.80	2.94	11.17	10.77	+0.40	45.26	40.39	+4.87	5.3	5.0	Mymensingh	Mymensingh		Orissa	
93	8.6	2.06	2.28	2.75	7.51	11.18	-3.27	35.09	34.71	-1.68	6.5	5.1	Bogra	Bogra			
97	4.4	0.26	1.29	2.53	7.27	10.42	-3.15	49.02	36.28	+12.64	5.3	4.3	Sarajunge	Fabna		Orissa	
90	6.4	6.48	4.80	2.70	16.00	10.91	+5.09	40.98	37.50	+3.48	4.5	4.0	Rampore Beaulah	Rajshahye			
91	5.7	5.52	2.70	2.56	14.79	10.81	+3.98	51.49	40.54	+10.95	6.6	4.2	Maldah	Maldah		Orissa	
92	3.4	2.90	4.11	2.91	16.03	11.06	+4.94	60.24	53.97	+6.27	5.3	4.4	Dinapore	Dinapore			
90	2.6	11.14	12.53	5.22	33.10	20.63	+12.45	111.63	51.08	+30.54	6.3	5.5	Rangpore	Rangpore		Orissa	
96	10.0	4.98	7.91	5.23	22.22	25.63	+3.54	126.27	93.21	+33.06	7.0	5.6	Jalpigoree	Jalpigoree			
96	9.2	5.07	6.44	2.95	17.43	12.51	+4.92	56.83	40.79	+16.04	5.3	3.8	Darjeeling	Darjeeling Hill Tracts		Orissa	
96	7.4	5.13	5.41	1.97	12.68	9.46	+3.22	48.10	29.60	+18.50	6.0	3.7	Furness	Furness			
92	7.6	9.13	6.09	2.35	14.75	9.78	+4.97	49.74	30.70	+19.04	5.7	3.8	Monufepore	Monufepore		Orissa	
96	8.9	9.02	7.73	2.18	10.63	11.29	-0.41	53.61	33.92	+19.69	5.6	3.4	Darbhanga	Darbhanga			
92	8.4	2.70	2.42	2.48	14.46	9.21	+5.25	43.94	29.21	+14.73	4.0	3.7	Motihari	Chumpran		Orissa	
92	7.7	5.95											Chupra	Saran			
92	9.0	4.63	4.43	2.43	12.42	10.90	+1.52	40.75	28.11	+12.67	5.3	3.5	Dehree	Shahabad		Orissa	
92	6.4	2.78											Buxar				
90	8.9	10.53	6.46	2.66	20.06	11.16	+8.90	51.63	30.39	+21.24	6.3	4.0	Arrah			Orissa	
91	9.9	3.27	6.70	2.35	14.08	9.67	+4.41	39.18	29.53	+9.65	5.3	3.9	Gya	Gya			
90	9.0	5.69	3.98	2.19	12.20	10.29	+1.91	33.91	20.30	+13.62	5.3	3.6	Bankipore	Patna		Orissa	
88	5.3	0.75	2.40	2.60	12.25	11.16	-1.19	45.77	35.45	+10.32	5.0	4.0	Bhagulpore	South Bhagulpore			
88	10.0	2.13	1.75	2.22	9.61	12.51	-3.90	39.26	36.53	+2.73	2.3	4.3	Doonah	Doonah		Orissa	
87	9.3	2.09	2.44	2.84	14.25	12.72	+0.54	28.98	34.54	-5.56	5.7	4.4	Hasaribagh	Hasaribagh			
86	8.9	0.42	0.23	2.19	5.20	12.33	-10.02	34.75	28.41	-13.66	3.0	5.0	Banohi	Lohardugga		Orissa	
86	10.9	7.29											Manbhum	Manbhum			
86	9.6	2.77											Chyebassa	Singbhum		Orissa	
86	9.9	6.12											Sitabgar				
													Dhubri	Assam		Orissa	
													Silchar				

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
ten years. The means of the district are the numerical average of the rainfall return received in the district, i.e. from total rainfall at the subdivisions

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 29th of August 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of month.	Average total rain- fall from 1st of month.	Total rain- fall since 15th May 1890.	Average rainfall from 15th May to date.	
			Saturday, 29th August.	Sunday, 30th August.	Monday, 31st August.	Tuesday, 1st August.	Wednesday, 2nd August.	Thursday, 3rd August.	Friday, 4th August.	Number of rainy days.	of Rainfall week.					
NORTH- WEST BENGAL.	POOREE	Pooree	0.60	0.21	0.06	1.15	4	2.02	12.03	6.44	37.00	28.31	
		Khurda	0.51	0.23	0.06	0.20	4	1.05	8.80	11.07	42.00	34.00	
		Bampur	0.20	0.46	2.07	10.45	29.00	
		False Point	1.48	0.00	0.17	0.41	0.08	5	2.17	10.60	13.14	35.28	30.00	
		Gop	
	OUTTACK	Satpara	0.18	
		Pipli	
		Jagatsingpore	0.42	0.42	0.10	0.02	4	1.36	8.85	9.78	35.00	28.43	
		Banki	0.20	1.50	3.00	3	4.70	10.69	8.87	30.00	31.44	
		Outtack	0.05	1.20	0.60	1.80	4	4.25	13.07	10.60	40.00	38.28	
	BALASORE	Kendrapara	0.17	1.31	0.03	1.71	4	3.21	8.85	12.01	24.41	30.04	
		Jajpore	0.07	1	0.07	5.49	10.03	3.36	35.81	
		Dharmasia	1.15	
		Salsipore	0.15	0.10	
		Chandball	0.25	0.61	3	0.60	6.15	10.48	29.20	31.72	
SOUTH-WEST BENGAL.	Midnapore	Bhuddruck	0.18	0.40	2	0.58	4.61	9.07	30.28	34.00	
		Sorah	0.23	0.22	0.06	3	0.53	8.59	10.54	34.07	32.78	
		Balasore	0.01	0.03	0.04	3	0.08	7.37	11.01	33.53	37.40	
		Jellapore	0.10	0.12	2	0.22	8.36	10.38	32.11	35.17	
		Haripodah	12.21	37.10	
	24-Pergunnahs	Diamond Har- bour	
		Canning Town	0.47	0.30	0.52	0.00	0.06	5	1.04	11.31	15.19	36.76	39.90	
		Alipore Jail	0.48	0.34	0.35	3	1.17	13.72	42.00	
		Barrackpore	1.07	0.90	0.15	3	2.12	7.88	12.81	37.65	39.23	
		Dum-Dum	0.05	0.30	2	0.35	5.43	11.46	30.49	36.67	
	Howrah	Buraset	0.32	0.37	0.34	3	1.25	8.04	12.20	31.36	34.08	
		Buseerhat	0.10	0.28	2	0.38	7.28	11.58	31.79	34.87	
		Howrah	0.39	0.08	0.87	3	1.85	10.57	12.47	42.28	39.06	
		Moheswara (Ouloberah)	0.42	0.03	0.37	0.30	0.07	5	1.60	8.55	11.73	35.72	36.50	
		Serampore	0.12	0.23	0.23	0.28	4	0.88	6.43	12.80	43.25	39.06	
Hooghly	Hooghly	.....	.....	0.02	.....	0.10	.....	0.28	3	0.40	5.87	12.01	31.79	36.70
	Jehanabad	.....	.....	0.41	.....	.....	.....	0.16	2	0.70	6.43	11.07	32.67	35.60
	.....	.....	0.60	0.20	0.03	0.35	0.04	5	1.33	8.98	15.42	43.98	40.04	
	Burdwan	Culina	0.07	0.11	2	0.18	4.29	10.82	30.89	32.05
		Burdwan	0.00	0.01	0.45	0.02	4	0.57	6.59	12.30	40.00	34.03	
Culina		.....	.....	.....	.....	.....	0.32	0.34	2	0.66	5.70	11.37	43.47	38.97
Ranagunge		1.24	0.08	.....	0.04	.....	.....	.....	3	1.80	9.41	12.55	43.25	36.77
Montur		0.01	0.41	.....	.....	0.10	.....	.....	3	1.43	7.35	.....	30.47	.....	
Bankoora	Bankoora	0.43	0.11	.....	.....	0.21	.....	0.83	4	1.25	4.25	13.51	41.73	37.60
	Bishenpore	0.78	0.06	.....	.....	.....	.....	.....	2	0.84	3.62	14.51	34.39	34.04
	Mahara	0.52	.....	.....	.....	.....	.....	.....	1	0.52	7.37	13.14	45.08	37.24
	Khatra	0.73	.....	.....	.....	.....	.....	0.20	2	0.92	4.03	13.53	26.73	41.08
	Indas	.....	0.03	0.71	.....	0.10	.....	0.86	4	1.88	5.75	.....	40.01	.....	
Nearbhuom	Kotalpore	.....	.....	1.43	.....	0.02	.....	0.61	3	1.56	0.80	.....	33.05	.....	
	Anda	.....	0.10	.....	.....	.....	.....	.....	1	0.10	2.67	.....	34.73	.....	
	Gangajalghati	.....	0.52	.....	.....	.....	.....	.....	1	0.52	2.05	.....	.....	.....
	Kaipore	0.43	0.64	.....	0.45	.....	0.08	0.42	5	2.02	0.17	.....	37.60	.....	
	Sonamukhi	1.30	0.34	0.15	0.31	.....	.....	.....	4	2.56	6.44	.....	39.23	.....	
Nudda	Mh. Scory	2.74	0.77	0.94	.....	.....	.....	0.01	4	4.50	8.02	13.11	40.80	38.41
	Hutampore	0.11	.....	.....	.....	.....	0.30	.....	2	0.31	6.35	11.70	35.94	39.26
	Rampore Haut	2.10	0.43	.....	0.15	.....	.....	0.00	4	2.86	12.61	12.04	34.73	34.07
	Bulpore	1.55	.....	.....	.....	.....	0.29	.....	2	1.67	6.66	.....	41.95	.....	
	Murari	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Khoodna	Ranaghat	.....	.....	.....	0.08	.....	.....	1.06	2	1.14	5.55	12.02	34.37	34.66
	Kishnaghat	0.26	.....	0.13	.....	0.01	.....	0.56	4	1.00	8.74	10.02	41.24	38.25
	Choodanga	0.25	.....	0.15	.....	0.12	.....	0.68	4	1.20	8.18	11.57	30.98	35.54
	Moherpore	.....	.....	0.49	.....	.....	.....	0.20	2	0.60	7.60	11.65	35.23	34.26
	Koohtee	0.14	0.30	0.08	0.08	.....	.....	0.66	5	2.18	7.47	11.80	33.53	37.56
Jessore	Satkira	0.12	0.01	.....	.....	0.21	0.03	1.02	5	1.80	8.08	11.63	40.83	40.00
	Bagirhat	.....	.....	0.17	.....	.....	0.35	0.10	3	0.82	7.63	12.13	40.42	44.38
	Khoodna	.....	.....	0.40	.....	0.07	.....	0.81	3	1.33	6.38	11.41	38.24	36.68
	Nakpur	.....	0.23	.....	.....	1.05	.....	1.15	4	4.45	16.08	.....	30.87	.....	
	Rampal	1.02	0.21	0.08	.....	.....	.....	.....	3	1.29	9.51	.....	44.93	.....	
Moorshedabad	Narail	0.03	.....	.....	.....	.....	.....	0.72	2	0.75	6.30	10.23	37.45	38.43
	Jessore	0.03	0.02	0.40	0.00	0.66	0.02	1.50	7	2.32	12.39	11.80	42.25	39.43		
	Jhendah	.....	.....	0.40	.....	.....	.....	.....	1	0.40	5.12	11.92	37.67	37.00
	Masoorah	0.07	.....	0.27	1.00	0.60	10.10	0.70	6	2.73	10.00	11.40	35.43	38.53	
	Bongong	.....	.....	.....	.....	1.30	.....	.....	1	1.30	9.14	12.67	29.85	30.59
EAST BENGAL	Chittagong	Kandi	1.80	0.21	0.22	3	2.24	10.15	11.04	45.40	34.15	
		Berlampore	1.70	0.14	0.07	0.31	4	2.22	9.94	11.59	41.74	34.37	
		Lalbagh	1.02	0.03	0.05	0.18	4	1.38	8.73	11.59	45.20	35.39	
		Amungunge	1.10	0.34	0.10	3	2.04	8.03	11.89	40.19	34.87	
		Jungipore	0.95	0.86	0.13	0.20	5	2.13	10.55	11.00	35.18	34.87	
	HACKARRUNGE	Jahkola	0.45	0.75	2	1.20	8.49	10.62	43.90	34.85	
		Jagunje	0.61	0.13	0.60	3	1.44	7.79	42.10	
		Akharganj	
		Patkabari	
		Cor's Bazar	1.43	0.50	3.30	0.03	1.60	0.20	5	7.84	23.01	26.47	110.83	104.40	
CHITTAGONG	CHITTAGONG	0.90	1.14	0.81	.....	.....	0.05	.....	4	6.40	17.90	19.10	60.94	71.21
	Kutubdia	4.30	1.25	1.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Satkanya	3.61	0.30	.....	.....	0.04	0.24	0.04	5	4.28	15.07	.....	55.79	.....	
	Rangmati	0.17	0.67	0.10	0.24	0.19	0.08	1.09	7	8.04	15.84	1	.....	.....
	Hill Tracts	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
HACKARRUNGE	Patnakhally	1.00	0.30	0.85	0.95	.....	0.23	0.75	6	3.00	14.76	18.60	60.61	64.84	
	Perozpore	0.22	0.44	0.14	0.23	.....	0.14	0.29	6	1.45	8.13	14.22	50.25	54.00	
	Burrial	0.30	.....	0.42	0.64	.....	.....	0.13	4	1.54	8.41	11.31	51.15	54.30
	Bhola	1.29	0.60	0.93	0.20	0.11	0.17	0.44	7	5.76	15.31	16.63	53.43	57.77		

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 29th of August 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.	
			Saturday, 23rd August.	Sunday, 24th August.	Monday, 25th August.	Tuesday, 26th August.	Wednesday, 27th August.	Thursday, 28th August.	Friday, 29th August.	Number of rainy days.	of Rainfall week.					
SOUTH-BENGAL	Burdwan	Gourmaddi	0.70	0.20	0.20	0.17	0.22	0.75	4	1.87	8.66	?	31.93	?		
		Bouphal	1.50	0.71	0.15	0.17	0.28	1.87	0.87	0	0.00	14.14	?	54.87	?	
		Noakholly	2.11	0.08	0.30	2.65	0.17	0.15	0.55	7	8.56	16.59	28.73	69.58	74.47	
		Fenny	2.00	0.15	0.05	0.05	0.20	1.72	0.20	5	6.12	20.87	22.04	85.04	74.57	
	Furzedpore	Barishpore	1.90	2.80	0.00	0.00	0.20	0.80	0.80	4	1.45	11.75	?	56.41	?	
		Bomganj	0.65	0.10	0.00	0.00	0.20	0.80	0.80	4	1.45	11.75	?	56.41	?	
		Madaripore	0.05	0.05	1.50	0.45	0.35	1.45	3.60	3	5.35	7.41	11.53	36.91	42.11	
		Goalundo	0.24	0.24	0.00	0.00	0.15	0.00	0.00	5	0.45	5.59	10.63	29.79	37.57	
	Dacca	Munshiganj	0.10	0.00	0.00	0.45	0.35	0.00	2.05	4	2.95	11.53	13.95	49.71	49.76	
		Dacca	0.26	0.00	0.17	0.10	0.00	0.04	1.72	5	2.39	10.40	11.94	45.04	42.84	
		Narsingganj	0.18	0.00	0.05	1.95	0.11	0.00	2.92	5	4.02	14.10	11.04	55.13	44.88	
		Mamukhane	0.04	0.00	0.00	0.00	0.00	0.20	1.74	5	3.24	10.63	10.64	43.16	30.05	
Hill Tipperah	Joydebpore	0.23	0.12	0.24	1.30	0.13	1.43	2.40	7	5.93	13.07	?	50.90	?		
	Agartala	0.20	0.15	0.00	0.15	0.22	0.00	0.57	5	1.39	7.19	12.13	47.29	42.73		
	Comilla	0.75	0.16	0.33	0.30	0.23	0.20	1.60	7	4.09	11.77	16.72	58.23	47.39		
	Chandpore	0.20	0.00	0.33	0.00	0.00	0.00	0.43	3	1.34	11.56	19.14	45.96	54.59		
	Brahmanberia	0.18	0.00	0.00	0.14	0.00	0.00	1.76	3	2.93	5.96	11.63	40.70	42.39		
	Ramchandrapore	0.00	0.00	0.47	0.22	0.16	0.18	0.32	6	1.85	13.15	?	59.14	?		
	Nasirnagar	0.00	0.00	0.00	0.20	0.00	0.00	0.00	2	1.10	2.00	?	27.01	?		
	Daudkandi	0.00	0.00	0.00	0.00	0.00	0.40	0.00	1	0.40	3.59	?	21.63	?		
	Kusba	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	?	?	?		
	Laksham	0.00	0.00	2.00	0.00	0.00	0.00	1.05	2	4.25	12.80	?	61.70	?		
	Mymensingh	Kishoreganj	0.17	0.55	0.00	0.00	0.47	0.90	0.90	4	2.60	10.50	12.30	50.44	40.35	
		Atia (Tangail)	0.51	0.51	0.00	0.00	0.00	0.00	0.00	2	3.90	0.96	11.30	39.18	39.18	
Mymensingh		0.71	0.14	0.47	0.31	0.33	0.72	0.97	7	3.34	11.84	12.95	58.20	52.21		
Jamulpore		0.00	0.43	0.47	0.47	0.00	0.00	0.00	4	2.60	10.50	12.30	50.44	40.35		
Naraina		0.40	0.38	1.02	0.00	1.39	1.45	0.00	5	4.71	17.07	15.13	73.83	54.27		
Subarnachali		0.30	0.30	0.30	0.30	0.30	0.30	0.30	5	1.90	3.77	?	33.08	?		
Durgapore		0.50	0.50	0.50	0.50	0.50	0.50	1.20	6	5.40	24.18	?	91.36	?		
Sherepore Town		0.80	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	?	?	?		
Dewanganj		1.15	0.00	0.00	0.00	0.00	1.35	1.50	3	4.20	6.68	?	41.19	?		
Pubna		Pubna	0.19	0.05	0.89	0.00	0.07	0.05	0.05	6	2.40	8.43	11.05	32.04	30.57	
		Seraikunda	0.25	0.50	0.20	0.07	0.13	0.27	0.60	7	2.03	7.17	10.69	55.05	37.63	
		Bogra	1.27	0.85	0.00	0.37	0.00	0.21	0.72	5	3.03	9.68	11.53	44.79	42.07	
	Nowkhilla	0.13	0.24	0.00	0.20	0.00	1.45	2.45	4	2.42	9.44	9.83	42.32	37.48		
	Bogra	2.26	0.56	0.72	0.30	0.46	0.14	0.14	7	4.21	13.07	11.30	44.73	44.73		
	Panchbibi	0.28	0.37	0.77	0.00	0.17	0.11	0.11	5	1.90	11.83	10.45	45.79	39.19		
	Rajshahi	Benaulah	0.15	0.59	0.11	0.12	0.00	0.07	0.00	6	0.93	6.18	11.31	49.38	35.78	
		Nattor	1.35	0.21	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	11.08	56.13	39.78	
		Naogaon	0.82	0.00	0.00	0.00	0.00	0.00	0.00	4	1.78	5.76	8.87	41.55	38.01	
		Lalpara	0.00	0.00	0.70	0.00	0.17	2.00	0.15	4	3.02	7.63	?	35.10	?	
	Maldah	Manda	0.10	0.30	0.00	0.00	0.00	0.00	0.00	3	0.90	0.00	?	?	?	
		Maldah	0.00	2.93	0.00	0.27	0.00	3.17	5	6.46	18.60	8.24	49.08	34.25	34.25	
Chanchal		0.00	0.38	0.00	0.45	0.00	0.00	0.00	4	2.53	14.00	12.59	39.27	40.82		
Gajol		1.33	3.17	0.16	0.15	0.00	2.17	5	7.01	23.11	?	55.04	?	?		
Mirzapore	Siliguri	0.65	0.66	0.04	0.07	0.00	0.00	0.00	5	1.37	7.70	?	41.53	?		
	Mohadebpore	0.10	0.00	0.45	0.00	0.25	0.26	0.26	5	1.99	5.65	12.77	39.46	40.78		
	Churaman	0.73	0.08	0.00	0.00	0.00	1.81	3	3.31	10.03	9.27	33.13	35.37	35.37		
	Raipur	0.48	1.04	0.72	0.00	0.00	0.00	0.00	5	3.27	22.19	11.57	61.17	41.58		
	Dumkura	0.14	3.80	0.03	0.00	0.00	0.84	5	5.04	10.04	11.57	50.91	40.49	40.49		
	Raichura	2.27	0.36	0.37	1.25	0.00	0.72	5	4.87	13.03	8.89	41.53	37.53	37.53		
	Thakurgaon	2.84	2.30	0.45	0.00	0.00	1.84	0.45	5	8.11	21.04	?	69.04	?		
	Rangpur	Bhawaniganj (Gyabanda)	3.00	1.85	0.00	0.00	1.00	0.30	0.30	4	0.35	15.21	9.75	59.03	44.59	44.59
		Bunapora	1.44	0.05	1.23	0.00	0.16	0.18	0.18	7	3.13	11.14	11.67	52.01	54.05	54.05
		Kurigram	1.00	0.14	0.12	0.00	0.01	0.30	0.30	5	1.57	9.79	9.32	57.28	54.93	54.93
		Bangora	0.55	2.11	0.29	0.11	0.08	0.05	2.15	7	5.37	18.94	13.95	71.03	62.56	62.56
	Jalpaiguri	Ulipora	0.00	2.10	0.00	0.00	0.00	0.00	0.00	2	2.40	15.01	?	53.86	?	?
Jalpaiguri		5.80	1.40	1.45	0.32	0.10	1.25	0.35	7	10.95	22.82	25.57	114.45	84.71	84.71	
Alipore Dooars		4.50	1.14	2.00	0.05	2.45	4.20	4.00	7	20.83	42.17	?	130.23	?	?	
Fallacotta		1.62	1.83	0.51	0.00	1.38	2.45	0.35	6	8.04	17.13	?	105.02	?	?	
Dehiganj		2.03	2.35	0.77	0.00	1.25	1.48	2.13	6	10.61	24.78	?	80.91	?	?	
Rangpur		0.63	0.40	0.65	4.03	2.70	2.19	2.04	7	12.73	22.34	?	125.83	?	?	
(Narabatta)		0.79	0.37	0.10	0.07	0.12	0.00	0.00	6	3.25	22.15	10.47	83.02	69.73	69.73	
Dinhat		0.64	0.82	3.30	0.07	1.18	3.04	2.75	7	13.05	40.12	10.96	121.82	84.17	84.17	
Jalpaiguri		2.12	5.25	1.77	0.11	1.13	0.54	4.22	7	18.14	33.85	21.04	104.65	73.32	73.32	
Makhanpura		3.70	1.97	0.24	0.32	3.14	3.37	6.33	7	17.91	40.24	22.20	125.69	84.44	84.44	
Makhanpura		6.36	1.96	0.51	0.87	0.78	7.01	0.98	7	18.67	47.67	39.70	160.81	100.00	100.00	
Darjeeling Hill		Busa	0.75	0.83	0.14	0.70	0.09	2.10	0.24	7	5.40	23.96	21.14	132.35	82.00	82.00
	Siliguri	0.74	0.70	0.87	0.64	1.12	0.19	0.00	7	4.92	26.89	34.03	114.79	81.05	81.05	
	Darjeeling	0.55	0.40	0.40	0.19	1.27	0.44	0.29	7	3.17	19.72	17.53	84.44	63.16	63.16	
	Kalimpong	0.67	0.55	0.30	0.00	1.80	0.40	0.00	7	4.85	30.00	?	154.04	?	?	
	Kurseong	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	?	?	?		
	Kurseong	1.45	5.15	0.00	1.93	0.85	1.67	2.65	6	12.70	23.81	14.40	73.40	50.41	50.41	
	Arturab	2.60	0.59	0.00	0.33	0.04	1.40	0.35	6	0.35	15.05	12.45	54.97	44.55	44.55	
	Purneah	0.33	0.89	1.87	0.00	0.35	0.61	2.05	7	0.07	14.80	18.07	42.56	41.43	41.43	
	Gondara	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	?	?	?		
	Balarnpore	0.00	1.10	0.30	0.08	0.17	0	1.35	7	4.55	30.72	?	71.91	?	?	
	Mahari	0.00	0.22	0.00	0.33	0.00	2.10	3	2.97	?	?	?	83.86	?	?	
	Kataganj	1.41	0.90	0.31	1.16	0.60	4.00	0.07	7	8.87	26.67	11.10	67.01	33.60	33.60	
North Bhalga-pur	Maddapora	0.23	0.98	0.23	0.00	0.00	0.00	0.00	3	4.05	11.10	11.10	67.01	33.60	33.60	
	Bouphal	1.23	0.98	0.23	0											

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 29th of August 1890—concl'd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of month.	Average total rain-fall from 1st of month.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 23rd August.	Sunday, 24th August.	Monday, 25th August.	Tuesday, 26th August.	Wednesday, 27th August.	Thursday, 28th August.	Friday, 29th August.	Number of rainy days.	of Rainfall week.				
NORTH BENGAL—concluded.	Dharmapara...	Motihari ...	1'08	4'46	0'48	0'41	0'13	2'24	2'18	4	8'80	12'66	11'01	54'04	20'77
		Bettiah ...	0'08	1'10	0'05	0'41	0'13	2'24	1'75	7	8'03	15'08	11'44	52'17	24'00
		Bapaha ...	0'14	0'39	0'35	1'19	0'30	0'30	1'58	6	5'78	20'55	?	67'50	?
		Barkurwa ...	1'24	0'39	0'01	0'42	0'06	...	0'58	6	2'94	10'66	?	47'03	?
SOUTH BENGAL	Baran	Gopalgunge ...	1'19	0'35	...	2'31	...	0'80	...	4	4'55	17'87	9'08	45'61	23'26
		Sewan ...	0'21	1'01	...	0'31	0'31	0'08	...	5	2'21	14'33	9'52	40'28	20'03
		Chuprah ...	0'10	...	1'81	0'03	...	0'11	...	4	2'05	10'03	9'53	40'78	24'77
		Buxar ...	2'15	...	...	1'73	...	...	1'03	5	5'06	10'59	9'63	42'21	20'29
	Shahabad	Dohree ...	1'42	0'22	0'79	2'39	0'28	...	1'03	6	5'08	14'23	12'17	57'47	28'06
		Bhabooh ...	0'48	0'40	1'80	0'30	0'04	...	0'05	6	8'27	10'58	11'36	52'88	29'44
		Rasorua ...	1'80	0'13	1'02	1'32	...	0'17	0'54	6	4'98	12'52	11'45	56'69	28'63
		Arrah ...	0'24	0'06	...	1'55	0'07	0'03	0'09	6	2'04	12'87	10'03	54'01	28'22
		Mohaniah ...	0'50	2'10	0'41	...	...	...	...	3	3'01	9'81	?	29'47	?
	Gya	Aurungabad ...	5'00	0'38	0'57	0'53	0'34	...	1'75	6	9'74	29'70	11'97	55'87	31'20
		Gya ...	2'02	0'01	0'04	1'03	2'02	0'51	2'07	7	10'53	20'05	10'84	53'68	31'33
		Nowadah ...	0'07	...	0'71	0'28	0'32	1'07	...	5	3'05	14'86	10'41	50'61	29'06
		Johannabad ...	1'41	0'07	...	0'15	0'23	...	0'06	5	2'53	14'70	11'25	48'36	20'66
	Patna	Arwal ...	1'40	...	...	1'20	...	...	...	6	3'00	8'05	?	24'36	?
		Daudnagar ...	0'50	1'30	0'30	0'30	0'30	0'30	...	6	4'26	14'46	?	31'13	?
		Sherrghati ...	0'20	0'36	0'40	1'00	0'65	0'68	0'80	6	5'78	14'91	?	41'31	?
		Rajauli ...	0'50	...	0'25	0'80	...	...	...	6	5'78	14'91	?	41'31	?
	Fakri Barwan	...	4'10	0'30	...	...	...	1'10	0'70	4	6'20	14'10	?	67'58	?
	
	
	
	Monghyr	Begoonah ...	1'50	0'10	...	0'42	0'30	0'15	2'10	6	4'57	10'57	9'03	36'17	22'34
		Monghyr ...	0'41	0'29	...	0'61	0'14	...	1'45	6	3'90	9'38	11'60	40'08	22'20
		Jamul ...	0'25	...	1'10	0'30	0'18	...	1'33	6	3'10	11'00	10'36	53'13	23'23
		Gogri ...	...	...	...	...	...	...	2'35	2	5'57	21'16	?	64'61	?
	South Bhagulpore.	Shakhpura ...	...	...	1'10	0'23	...	...	0'05	3	2'28	14'83	?	41'68	?
		Bhagulpore ...	0'08	0'22	0'45	0'23	...	...	5'01	5	5'97	10'22	9'33	40'66	29'44
		Barka ...	0'76	1'41	0'04	0'45	0'11	...	0'51	6	3'21	10'02	10'07	34'98	20'38
		Kalyan ...	0'11	0'35	0'00	0'50	0'40	...	0'40	6	2'51	10'03	?	48'29	?
	Mouthal Pergunah.	Bongson ...	...	5'41	...	...	...	...	5'40	1	5'81	15'16	?	54'94	?
		Rajmehal ...	0'09	0'77	0'09	1'01	0'18	...	0'44	5	5'46	11'47	9'16	37'55	23'44
		Godda ...	0'08	0'00	0'10	...	0'15	...	0'13	5	2'74	10'30	9'03	41'44	20'24
		Pakour ...	0'08	1'60	0'03	0'05	...	...	...	4	1'70	11'78	10'84	51'17	26'11
	Nya Doomka	Deoghur ...	0'08	0'41	0'25	0'01	...	...	...	4	0'78	19'79	13'31	54'84	24'08
		Deoghur ...	1'71	1'14	0'38	0'12	...	...	0'07	5	3'48	9'84	11'73	30'90	20'70
		Jamtara ...	0'21	0'09	0'01	0'20	0'31	...	2'01	5	2'79	10'94	12'19	49'75	29'46
		Mohaguma ...	0'58	0'12	1'15	0'88	0'50	...	0'15	6	3'56	15'55	?	42'39	?
	Hemist	Hemist ...	...	0'45	...	0'21	...	0'11	...	3	0'77	5'27	?	22'84	?
	
	
	
CENTRAL NAGPUR.	Hamirbagh	Pachamba (Girdi) ...	1'30	0'09	...	...	...	...	0'18	2	1'48	9'37	11'30	45'63	24'18
		Hamirbagh ...	0'24	0'45	0'15	1'33	0'04	...	0'79	6	3'13	10'39	12'87	40'08	24'47
		Semtagurah ...	1'00	0'02	...	0'15	0'18	...	...	4	2'23	8'33	11'06	30'09	23'58
		Mahudi Hill's	...	...	...	...	...	...	...	...	...	14'23	14'23	30'60	20'60
	Jhoomra Hills	Barki ...	0'23	0'06	0'02	0'30	0'36	5'10	0'34	7	7'05	16'01	?	42'53	?
		Ohatra ...	0'75	1'30	0'35	1'03	0'50	0'55	1'16	7	6'08	10'05	?	41'47	?
		Kavagaha ...	0'24	0'40	1'71	0'05	...	...	0'08	5	1'43	13'73	?	48'37	?
		Kamghar ...	...	...	...	...	2'48	...	...	1	2'48	18'00	?	21'06	?
	Lohardugga	Lohardugga ...	7'07	0'35	0'09	0'23	1'00	0'00	0'18	7	10'05	22'18	13'02	45'80	25'84
		Ranchi ...	0'50	0'54	0'50	0'24	...	...	...	4	2'00	7'76	13'64	31'74	20'06
		Palamow ...	0'30	0'42	0'50	2'71	...	0'10	0'20	6	4'23	12'87	10'02	20'74	20'66
		Silli ...	...	1'00	0'40	...	...	...	...	...	...	?	?	?	?
	Singbhoom	Balemat ...	...	1'48	1'30	...	...	...	1'31	3	4'00	14'31	?	31'91	?
		Hossainabad ...	0'35	0'75	1'63	...	...	...	...	...	...	?	?	?	?
		Garwah ...	...	...	...	...	...	...	...	...	...	?	?	?	?
		Chyebama ...	0'08	...	...	...	0'07	0'10	...	5	0'23	5'20	13'23	24'75	23'61
	Singbhoom	Chakradhar ...	0'05	0'15	...	0'10	0'10	...	0'05	5	0'45	4'05	?	19'61	?
		Chakradhar ...	0'41	...	...	0'00	...	...	...	...	...	?	?	?	?
		Chakradhar ...	...	0'35	...	0'71	...	...	...	2	1'01	5'33	?	26'08	?
		Baharagura ...	...	...	...	...	...	...	...	...	...	?	?	?	?
	Mantbhoom	Parulia ...	0'10	0'23	0'05	...	...	...	...	3	0'43	8'00	13'04	35'43	24'02
		Golundpore ...	0'23	0'27	...	...	...	...	0'19	3	0'58	6'43	12'13	29'07	24'00
		Kaghunath ...	0'30	...	...	...	...	...	...	1	2'00	16'52	?	50'58	?
		Barrabhoom ...	1'33	0'35	0'02	...	0'07	...	0'00	5	3'36	5'08	?	36'07	?
	Singbhoom	Jhola ...	0'52	1'15	...	...	...	1'75	0'71	4	4'23	17'54	?	37'15	?
		Chas ...	0'70	1'05	...	0'06	...	...	...	3	1'61	11'02	?	29'46	?
		?	?	?	?
		?	?	?	?

Explanation.—.....Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 2nd September 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
29TH OF AUGUST 1890.**

WEATHER conditions have been very similar to those of the previous week: pressure slightly above the normal and subject to small oscillations, temperature uniformly below in the northern and normal on an average in the southern districts, while the rainfall distribution is identical, scattered in Orissa, South-West Bengal, and parts of Chutia Nagpur and East Bengal, and considerably above the normal in North Bengal and Behar. These conditions have been very constant from day to day, and with the exception of a brisk rise of pressure in the middle of the week in the northern districts while the barometer remained steady in the north-west of the Bay, pressure changes have had little or no influence in altering the general distribution. Lowest pressure has generally been over the north-west of the province, and gradients running east and west, accompanied by the normal circulation of winds, south-west in Orissa and Chutia Nagpur, south-east in East Bengal, and easterly elsewhere. At times westerly winds blew in South Behar, but directions in that district have been irregular and velocity at times very low. On the 26th, when pressure rose between a twentieth and a tenth of an inch in all districts except Orissa, where the rise was only about a hundredth of an inch, a depression formed in the north-west corner of the Bay and adjacent land, but it disappeared by the following day, leaving very uniform pressure over the greater part of the province, gradients being somewhat steeper than usual in the east. After the 26th pressure fell slowly, and the distribution at the end of the week was exactly similar to that at the beginning, but wind circulation was much lighter in North Bengal and Behar, and rainfall not so heavy or general.

Pressure—On the 23rd, the first day of the week, was rising slowly in Orissa and South-West Bengal, and falling slowly in the other districts; on the 24th it remained steady and again fell slowly on the 25th, when the distribution was practically normal, but slightly above, the largest excess being less than a twentieth of an inch in Orissa. On the 26th the most important change of the week occurred, after which excess varied from a twentieth of an inch in Orissa to a tenth in North Bengal. During the latter half of the week there was a steady slow fall in all districts except in Behar and Chutia Nagpur, where a brisk rise occurred on the 29th. The distribution at the close of the week was again nearly normal, there being a slight defect in North Bengal, and a small excess elsewhere, largest in the western districts, but nowhere over a twentieth of an inch. Average pressure for the week is about a twentieth of an inch above the normal in Orissa, and elsewhere about three-hundredths.

Temperature—At the beginning of the week was falling in all districts, and the daily means were below the normal by variable amounts ranging up to nearly 5° in Orissa and South Behar. The defect occurred to a greater extent during the day than at night, and the difference from the average maximum temperature for the season was over 6° at False Point and Arrah, while defect in night temperature was only 2.5° and 2.3° respectively. From the 24th to the 28th temperature rose steadily, and by the latter date defect had almost disappeared. On the 29th a general fall again took place, giving defect at nearly all stations; but on this occasion while a large defect occurred in the day temperatures in North Bengal and North Behar, these were nearly normal in South Behar, and minimum temperature was from 3° to 5° below the normal. The means for the week are all below the normal except that for South-West Bengal, where however excess is only a tenth of a degree. Defect in Assam is 2.4° , North Behar 1.4° , South Behar 1.3° , Chutia Nagpur $.9^{\circ}$, Orissa $.8^{\circ}$, East Bengal $.7^{\circ}$, and North Bengal 2° .

Rainfall—As stated above, has been scattered in South-West and East Bengal and Chutia Nagpur, but heavy and general elsewhere, especially during the first two and last two days of the week. Falls in Orissa have been variable: under 1 inch in Balasore, over 2 in Pooree, and over 3 inches at Cuttack and Kendrapara. In parts of Midnapore, Jessore, and Moorshedabad falls are over 2 inches, but elsewhere in South-West Bengal they are generally between 1 and 2 inches. In East Bengal heavy rain fell on the 23rd in Chittagong, Backergunge, and Noakholly, and on the 29th in Furreedpore, Dacca, Tipperah, and Mymensingh, but the total falls for the week are very variable, ranging from half an inch to 6 inches. In Julpigoree, Cooch Behar, and Darjeeling hills general heavy rain has fallen, the heaviest falls being Alipur Dooar 20.3 inches, Mickilgunge and Buxa over 18 inches. In the other districts of North Bengal falls vary from 1 inch to 10 inches. In Behar the distribution is more uniform, at about 4 inches, but sometimes as high as 10 inches. The means for the larger divisions are above the normal in East and North Bengal and Behar and below elsewhere. Excess in North Behar is 3.26, in South Behar 2.12, North Bengal 2.05 inches, and the largest defect is 1.11 inches in South-West Bengal.

1802 SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 3, 1890.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 29th of August 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.									
	Highest observed during week.	Lowest observed during week.	Averages for week.				Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of month.		Since 1st of May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average.		Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.	
Orissa	90°4	75°6	86°4	77°8	82°1	-0°8	1°65	2°04	-0°30	3°2	4°0	-0°8	8°31	10°79	34°46	83°06	
South-West Bengal	90°6	75°4	87°6	78°4	83°0	+0°1	1°87	2°48	-1°11	3°2	4°2	-1°0	7°60	12°16	39°23	87°01	
East Bengal	88°1	78°8	85°1	76°8	81°0	-0°7	3°32	2°97	+0°55	5°0	4°8	+0°2	12°75	14°98	56°01	84°12	
North Bengal	89°5	74°1	86°7	77°7	82°2	-0°3	5°13	3°08	+2°05	5°6	4°9	+0°7	16°33	12°64	61°23	49°67	
North Behar	89°2	78°5	86°1	77°5	81°8	-1°4	5°71	2°45	+2°26	5°4	4°0	+1°4	14°98	10°71	50°76	33°63	
South Behar	89°7	72°7	86°1	77°0	81°5	-1°2	4°54	2°43	+2°13	5°5	4°0	+1°5	14°10	10°71	43°28	31°06	
Chuttia Nagpur	85°9°	69°7°	82°0°	71°0°	76°5°	-0°9°	2°70	2°87	-0°17	4°2	4°4	-0°2	10°71	12°10	37°20	24°06	
Assam	90°6	74°5	85°2	76°0	80°8	-2°4											

* Chyabasse not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 2nd September 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 24th to 30th August 1890.

MONTHS.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
August	24th	29°707	83°4	90°0	13°2	76°8	85°6	79°5	927	76°9	76	
"	25th	708	83°5	89°0	11°0	78°0	88°1	80°5	940	77°3	71	0°13
"	26th	741	83°3	87°6	8°6	79°0	88°8	81°5	1°046	80°6	90	0°13
"	27th	741	83°9	90°0	12°2	77°8	84°6	79°5	941	77°4	79	0°40
"	28th	744	82°9	85°9	6°1	79°8	85°6	81°5	1°21	79°9	84	0°09
"	29th	715	83°4	87°0	7°2	79°8	84°1	81°0	1°018	79°8	87	0°09
"	30th	691	88°8	91°0	15°0	76°0	86°8	81°5	1°005	79°4	79	0°32

The mean 10 A.M. pressure of the seven days Inches. 29°721

The mean temperature of the seven days 83°5

The extreme variation of temperature 15°0

The maximum temperature 91°0

The mean 10 A.M. relative humidity of the seven days % 81

The total fall of rain from 24th to 30th August 1890 Inches. 1°96

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Govt. of India.
METEOROLOGICAL OFFICE, INDIA ;
The 1st September 1890.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 16th August 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 16th August 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 18.7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, except 1887—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	22.7	22.7	17.9	20.1	21.8	22.4	18.7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.		26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.
Burdwan	12.3	13.7	13.7	13.3	Narainganj	29.0	24.8	16.6	33.1
Midnapore	7.7	15.3	13.9	12.3	Chittagong	14.1	4.7	6.7	16.4
Hughli and Chinsurah	23.0	14.3	10.4	0.0	Comilla	15.4	15.4	11.5	11.4
Serampore	21.6	27.5	23.6	23.6	Patna City	12.7	14.9	13.3	13.6
Uttarpara	18.9	18.9	18.9	9.4	Gya	33.6	17.8	21.9	22.7
Howrah	15.5	17.8	14.3	15.3	Arrah	10.1	13.3	20.3	20.3
Bali	14.0	10.5	7.0	7.0	Mozufferpore	13.4	14.0	17.0	18.3
Krishnagar	11.4	6.7	11.4	13.3	Durbinanga	27.5	19.7	22.9	18.1
Ranaghat	12.0	6.0	24.0	6.0	Chupra	11.1	6.0	3.0	12.1
Santipore	10.6	14.0	17.5	14.0	Bhawalpore	18.1	18.1	23.6	25.3
Jessore	6.1	18.4	6.1	.....	Monghyr	41.6	35.5	35.2	40.7
Rampore Beaulah	18.4	31.5	15.8	30.4	Purneah	20.8	10.4	13.3	6.9
Darjiling	22.3	7.4	37.0	22.2	Poori	18.9	6.3	12.6	6.3
Dacca	9.7	11.0	14.9	17.5	Total	18.3	15.3	17.4	18.7

It will be seen that last week the highest birth-rate was returned from Monghyr (40.7), and the lowest from Ranaghat (6). No births were registered during the week in Jessore town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22.8 per 1,000 of the population. The rate of the week is 8.7 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below :—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	31.0	28.4	27.7	26.1	24.5	31.5	22.8

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population :—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.		26th July 1890.	2nd August 1890.	9th August 1890.	16th August 1890.
Burdwan	27.5	19.6	13.7	10.7	Narainganj	16.6	10.0	12.4	16.0
Midnapore	17.0	7.7	13.5	17.0	Chittagong	14.8	11.7	9.4	21.1
Hughli and Chinsurah	24.6	25.3	18.1	31.2	Comilla	24.5	20.9	7.7	23.1
Serampore	39.3	51.0	51.0	53.4	Patna City	13.0	13.0	20.1	15.3
Uttarpara	47.3	37.7	0.4	37.7	Gya	37.8	44.4	56.7	56.7
Howrah	13.7	10.0	20.0	19.5	Arrah	20.5	8.4	20.2	13.2
Bali	21.1	14.0	10.5	24.0	Mozufferpore	22.8	16.8	23.1	20.7
Krishnagar	11.4	6.7	11.4	11.4	Durbinanga	25.3	14.5	34.6	27.5
Ranaghat	12.0	24.0	24.0	13.0	Chupra	18.1	11.1	3.0	16.1
Santipore	15.4	17.5	19.3	14.0	Bhawalpore	22.6	14.5	12.7	21.7
Jessore	14.3	12.2	12.2	18.4	Monghyr	26.3	15.4	24.2	13.9
Rampore Beaulah	23.6	16.5	21.0	34.2	Purneah	10.4	13.9	22.2	25.2
Darjiling	22.3	68.0	60.7	60.7	Poori	25.7	23.0	22.1	22.2
Dacca	15.6	37.3	22.3	20.1	Total	23.1	19.3	23.3	22.8

It will be seen that last week the highest mortality occurred in the town of Darjiling (66·7) and the lowest in Burdwan (10·7).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

<i>Cholera.</i>		<i>Fever.</i>		<i>Bowel-complaints.</i>		<i>Other causes.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.		Ratio per mille.
Gya	... 15·0	Darjiling	... 37·0	Midnapore	... 12·4	Gya	... 13·7
Durbhanga	... 13·4	Rampore Beaulah	23·6	Hughli and Chin-surah	... 11·5	Bhagulpore	... 10·9
Santipore	... 7·0	Gya	... 21·2				
Mozufferpore	... 6·1						
Chupra	... 5·0						
Patna City	... 2·9						

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·5 from cholera, against 3·6 per 1,000 in the preceding week; 9·4 from fever, against 9·6; 3·9 from bowel-complaints, against 3·5; 5·4 from other causes, against 6·1 in the preceding week. Small-pox and injury exhibit the same ratios as in the preceding week, viz. ·1 and ·4 respectively.

The mortality of last week according to *Sex*, *Class*, and *Age* was as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	Ratio per mille.		Ratio per mille.		Ratio per mille.
Males	... 25·4	Christians	... 7·5	Under 1 year	... 163·9
Females	... 20·0	Hindus	... 24·0	1 and under 5 years	... 43·6
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population ...	127	Mahomedans	... 20·1	5 " 10 "	... 17·9
				10 " 15 "	... 10·3
				15 " 20 "	... 16·1
				20 " 30 "	... 13·5
				30 " 40 "	... 14·5
				40 " 50 "	... 12·5
				50 " 60 "	... 16·3
				60 years and upwards	... 52·2

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

Sanitary Commissioner for Bengal.

The 1st September 1890.

Statement showing the results of the registration of Births and Deaths in the principal municipalities in Bengal during the week ending with Saturday, the 10th August 1906.

[illegible]

[illegible]

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

W. H. GREGG, Dip. Publ. Health. Camb.,

DEAR MR. PRESIDENT:

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 30th August 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 30TH AUGUST 1890.			WEEK ENDING SATURDAY, THE 31st AUGUST 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy ...	272	58,130	907	343	71,775	1,196
Jute ...	71	24,300	44	63	24,750	439
Firewood ...	113	56,200	862	99	43,375	718
Other articles ...	773	2,30,300	3,104	891	2,06,305	2,945
Total ...	1,229	3,68,930	5,322	1,396	3,46,205	5,298

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchan- dise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	313,671	3,14,109 2 0	19,14,149 30	4,40,353 8 0	17,123 8 0	6,71,506 11 0	66,397½	70,218½	141,616½
Of per mile of railway ...	140 6 8	140 6 8	.....	288 10 4	11 3 8	440 3 8	.....	.....	.....
For previous 7 weeks of half- year ...	1,533,891	15,43,683 8 0	1,21,80,971 20	26,72,657 0 0	1,24,489 15 11	63,41,323 8 11	438,772½	516,080½	955,653½
Total for 8 weeks ...	1,700,503	17,57,790 8 0	1,41,01,121 10	31,13,289 3 0	1,41,616 5 11	60,13,326 0 11	504,170½	592,877½	1,097,048
COMPARISON.									
Total for corresponding week of previous year ...	320,063	3,14,363 6 11	17,59,897 0	3,90,003 15 7	15,054 11 0	6,30,041 1 6	63,550	73,600	136,910
Per mile of railway correspond- ing week of previous year ...	140 8 6	140 8 6	.....	256 0 10	9 13 11	406 7 2	.....	.....	.....
Total to corresponding date of previous year ...	1,923,006	18,62,858 14 5	1,70,09,983 20	35,67,547 15 7	1,84,333 8 1	55,74,729 3 1	619,366	609,043	1,187,909

*Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.*

RECEIPTS FOR WEEK ENDING 24th AUGUST 1890.			RECEIPTS FOR WEEK ENDING 23rd AUGUST 1890.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 24th AUGUST 1890.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 23rd AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
1,525½	Rs. 6,30,041	Rs. 406	1,525½	Rs. 6,71,567	Rs. 440	1,525½	Rs. 1,76,01,480	Rs. 649	1,525½	Rs. 1,61,32,337	Rs. 504	Rs.	Rs. 14,69,103

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	8,048	4,470 14 0	30,850 30	1,060 12 0	45 0 0	6,476 10 0	1,034	572	1,606
Or per mile of railway	158½	78 2 7	530 10	34 4 6	0 12 7	113 3 8	.....	.....	.....
For previous 7 weeks of half-year	67,463	33,583 7 0	2,34,515 20	14,608 5 0	276 0 0	48,468 12 0	6,638	4,218	10,856
Total for 8 weeks	76,401	38,053 5 0	2,65,365 10	16,669 1 0	321 0 0	54,941 6 0	7,662	4,790	12,452
COMPARISON.									
Total for corresponding week of previous year	6,109½	4,086 15 11	72,437 30	2,164 10 0	36 11 9	6,278 3 8	1,154	1,097	2,251
Per mile of railway corresponding week of previous year	143	71 7 2	1,260 30	37 13 6	0 7 8	100 12 2	.....	.....	.....
Total to corresponding date of previous year	86,740½	44,792 11 11	4,47,428 10	20,124 13 0	340 11 6	65,258 4 5	8,084	5,970	14,054

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23RD AUGUST 1889.			RECEIPTS FOR WEEK ENDING 23RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 23RD AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	6,276	110	57½	6,477	113	57½	1,70,285	140	57½	1,81,687	161	2,432	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. c.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	15,063	3,876 15 0	4,503 20	131 7 0	6 3 0	4,024 8 0	927	41	968
Or per mile of railway	.....	173 15 7	.....	6 12 11	0 4 5	181 0 11	.....	.....	.....
For previous 7 weeks of half-year	122,953	30,118 11 0	30,613 20	1,061 6 0	56 5 0	31,230 6 0	6,147	343	6,490
Total for 8 weeks	138,017	33,995 10 0	35,507 0	1,212 13 0	62 7 0	35,258 14 0	7,074	384	7,458
COMPARISON.									
Total for corresponding week of previous year	15,373½	2,037 7 7	4,918 20	196 5 0	9 6 0	3,673 3 7	937	31	968
Per mile of railway corresponding week of previous year	.....	164 15 3	.....	8 13 3	0 6 9	174 1 8	.....	.....	.....
Total to corresponding date of previous year	145,054½	34,556 6 1	38,043 30	1,813 11 0	57 6 0	38,006 7 1	7,410	284	7,700

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 23RD AUGUST 1889.			RECEIPTS FOR WEEK ENDING 23RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 23RD AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 23RD AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,973	174	22½	4,029	181	22½	1,18,544	524	22½	1,20,107	527	1,563	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 16th August 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	144,470	52,830 0 0	5,90,470 0	1,62,390 0 0	11,720 0 0	2,37,046 0 0	22,484	36,167	61,651
Or per mile of railway ...	191	69 0 0	783 0	212 0 0	*1 0 0	232 0 0	.....	.....	.....
For previous 6 weeks of half-year ...	870,270	3,48,650 0 0	29,18,710 0	6,24,190 0 0	84,180 0 0	10,67,030 0 0	130,822	178,431	308,253
Total for 7 weeks ...	1,016,740	3,50,000 0 0	34,18,180 0	7,86,580 0 0	95,900 0 0	12,84,060 0 0	153,406	214,598	370,004
COMPARISON.									
Total for corresponding week of previous year ...	118,815	40,608 0 0	5,81,366 0	1,45,700 0 0	11,031 0 0	2,36,399 0 0	22,368	31,913	54,281
Per mile of railway corresponding period of previous year ...	159	66 0 0	912 0	222 0 0	*1 0 0	289 0 0	.....	.....	.....
Total to corresponding date of previous year ...	975,344	3,68,398 0 0	35,87,855 0	7,60,797 0 0	94,508 0 0	12,43,703 0 0	157,893	184,678	342,570

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
767	Rs. 2,26,809	303	767	Rs. 2,27,040	296	699	Rs. 33,70,145	242	761	Rs. *36,02,675	237	Rs. 2,21,630	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	33,840	7,490 0 0	40,250 0	3,460 0 0	100 0 0	11,050 0 0	3,612	2,060	5,672
Or per mile of railway ...	191	60 0 0	323 0	27 0 0	1 0 0	84 0 0	.....	.....	.....
For previous 6 weeks of half-year ...	168,713	54,680 0 0	2,14,130 0	13,650 0 0	1,390 0 0	60,630 0 0	20,636	11,766	32,402
Total for 7 weeks ...	189,553	62,170 0 0	2,54,380 0	17,110 0 0	1,400 0 0	80,680 0 0	24,250	13,826	38,076
COMPARISON.									
Total for corresponding week of previous year ...	24,884	8,143 0 0	60,857 0	3,592 0 0	178 0 0	13,902 0 0	3,527	2,467	5,994
Per mile of railway corresponding period of previous year ...	199	65 0 0	493 0	45 0 0	1 0 0	111 0 0	.....	.....	.....
Total to corresponding date of previous year ...	167,027	63,243 0 0	2,99,323 0	22,576 0 0	1,499 0 0	87,320 0 0	24,118	16,368	39,486

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
125	Rs. 16,002	111	125	Rs. 11,080	86	125	Rs. 2,07,167	107	125	Rs. *2,46,690	99	.....	20,477

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	10,130	Rs. A. P. 5,470 0 0	Mds. S. 18,660 0	Rs. A. P. 1,320 0 0	Rs. A. P. 230 0 0	Rs. A. P. 7,080 0 0	2,614	690	3,104
Or per mile of railway ...	230	63 0 0	19 0	15 0 0	3 0 0	81 0 0	.....	.....	.....
For previous 6 weeks of half-year ...	70,910	26,450 0 0	70,710 0	6,390 0 0	740 0 0	33,890 0 0	13,928	3,043	17,770
Total for 7 weeks ...	80,030	31,920 0 0	84,370 0	7,710 0 0	970 0 0	40,610 0 0	16,242	4,632	20,874
COMPARISON.									
Total for corresponding week of previous year ...	11,663	3,648 0 0	5,026 0	710 0 0	74 0 0	4,432 0 0	2,514	643	3,156
Per mile of railway corresponding period of previous year ...	136	42 0 0	58 0	8 0 0	1 0 0	51 0 0	.....	.....	.....
Total to corresponding date of previous year ...	92,121	27,608 0 0	97,328 0	5,181 0 0	1,500 0 0	34,278 0 0	17,034	5,640	22,673

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
86	Rs. 4,432	Rs. 51	86	Rs. 7,080	Rs. 81	80	Rs. 1,06,553	Rs. 63	86	Rs. *1,22,532	Rs. 71	Rs. 15,797	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 16th August 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week ...	2,000	Rs. A. P. 1,080 0 0	Mds. S. 7,730 0	Rs. A. P. 410 0 0	Rs. A. P. 10 0 0	Rs. A. P. 1,500 0 0	886	177	763
Or per mile of railway ...	110	40 0 0	284 0	15 0 0	.....	55 0 0	.....	.....	.....
For previous 6 weeks of half-year ...	20,040	7,160 0 0	68,000 0	3,670 0 0	70 0 0	10,900 0 0	3,192	2,130	5,322
Total for 7 weeks ...	22,030	8,240 0 0	75,730 0	4,080 0 0	80 0 0	12,400 0 0	3,778	2,313	6,091
COMPARISON.									
Total for corresponding week of previous year ...	4,111	1,480 0 0	9,533 0	660 0 0	14 0 0	2,123 0 0	600	296	896
Per mile of railway corresponding period of previous year ...	151	53 0 0	361 0	24 0 0	1 0 0	78 0 0	.....	.....	.....
Total to corresponding date of previous year ...	21,626	8,132 0 0	53,911 0	2,836 0 0	194 0 0	11,962 0 0	3,953	2,360	6,313

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 17TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 16TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 17TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 16TH AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
27½	Rs. 2,123	Rs. 78	27½	Rs. 1,800	Rs. 56	27½	Rs. 37,441	Rs. 80	27½	Rs. *28,408	Rs. 70	Rs. 96	.....

* Audited up to week ending 21st June 1890.



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, SEPTEMBER 10, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RULES UNDER ACTS I (B.C.) OF 1889 AND I OF 1882.

GENERAL DEPARTMENT.

Calcutta, the 9th September, 1890.

RESOLUTION.

READ—

The Resolution dated the 17th April, 1890, publishing for public criticism draft rules as to emigration to the tea districts of Assam under Act I (B.C.) of 1889 and Act I of 1882.

Read also the following letters commenting on the draft rules:—

Letter from the Superintendent of Emigration, No. 1083, dated the 17th May, 1890.

Letter from the Superintendent of Emigration, No. 1119, dated the 27th May, 1890, covering a communication from the Indian Tea Association.

Letter from the Consulting Engineer to the Government of India for Guaranteed Railways, No. 945, dated the 22nd May, 1890.

Letter from the Superintendent and Remembrancer of Legal Affairs, No. 466, dated the 14th July, 1890.

Letter from the Superintendent of Emigration, No. 1573, dated the 19th August 1890.

Draft rules for the further guidance of those conducting emigration to Assam either under Act I of 1882 or Bengal Act I of 1889 were published for public criticism in the *Calcutta Gazette* of the 14th May last. The suggestions received in reply having been considered, and adopted in nearly every

instance, the following rules are now approved by the Lieutenant-Governor with effect from the 1st October next:—

Rules issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the Railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour, if a cooked meal cannot be provided, a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of Rule 19 which may come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded during the journey opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods waggons, and the number in each carriage or goods waggon shall in no case exceed the regulation number. When a goods train is used for carrying emigrants, the speed shall not be less than 15 miles an hour on the broad gauge and 12 miles an hour on the metre gauge, exclusive of halts for the convenience of emigrants, but not of other halts.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed by the Railway authorities to the nearest cholera hospital on the line or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depot from which originally despatched, shall be forwarded by the station-master to the officers concerned. The expense incurred in removal to a suitable place for medical treatment shall be debited to the Inland Labour Transport Fund, and subsequently recovered from the forwarding agent or employer interested in the patient.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places of accommodation provided for emigrants in Calcutta.

25. The provision of Rule 16 of the rules previously issued shall extend to the present rules.

Rules to be substituted for the existing Rules 64, 65, and 69 under the Inland Emigration Act, I of 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the Railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractor or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal; and for those started at or before that hour, if a cooked meal cannot be provided, a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

69A. When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking water being obtained.

Rules issued in addition to the existing rules under Act I of 1882.

69B. Emigrants about to travel by train shall be accommodated in third class carriages especially reserved for them, or in suitably constructed goods waggons attached to passenger trains only, and the number in each carriage or goods waggon shall in no case exceed the regulation number. When a goods train is used for carrying emigrants, the speed shall not be less than 15 miles an hour on the broad gauge and 12 miles an hour on the metre gauge, exclusive of halts for the convenience of emigrants, but not of other halts.

69C. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

170A. Whoever commits a breach of any of the following rules under the Act shall be punishable with fine which may extend to Rs. 500:—Rules 19, 37, 49 to 52, 62 to 69, 71, 72, 79, 113, 118 to 120, 165, and 166.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Government of Bengal.

The following report is published for general information.

H. J. S. COTTON,

Secretary to the Government of Bengal.

REPORT ON THE WORKING OF THE FIRE BRIGADE IN THE
TOWN AND SUBURBS OF CALCUTTA AND IN
HOWRAH DURING THE YEAR 1889-90.

No. 4895, dated Calcutta, the 14th August 1890.

From—J. LAMBERT, Esq., C.I.R., Commissioner of Police, Calcutta,

To—The Secretary to the Government of Bengal, Municipal Department.

I HAVE the honour to submit, under section 30 of Act IV (B.C.) of 1883, the following report on the working of the Fire Brigade in the Town and Suburbs of Calcutta and in Howrah, for the year 1889-90.

2. The Brigade was in attendance at 36 fires during the year, 11 in the Town, 18 in the Suburbs and 7 in Howrah, as compared with 38 fires in the preceding year. The value of the property destroyed was Rs. 4,59,800, against Rs. 13,06,255.

3. Of the several fires which occurred during the year under review, the following call for special notice:—

In the town two destructive fires occurred in the Jorabagan section, in one of which property to the value of Rs. 93,000 was burnt, and in the other several tiled huts and a large godown, containing oil, tobacco and tar, valued in all at Rs. 15,000, were destroyed, and a man who was sleeping in one of the huts was burnt to death. In the port of Calcutta four boats laden with straw and one laden with jute, valued at Rs. 10,340, were destroyed.

In the Suburbs, on the 16th May 1889, a large quantity of hay and straw and 14 tiled huts at Narcoldanga, valued at Rs. 40,000, were burnt, and on the 10th March 1890 the press-house of the Bengal Hydraulic Jute Company in Chitpore, containing 9,000 bales of jute, was destroyed. The value of the property so destroyed was estimated at Rs. 2,70,000.

In Howrah the fires were confined to thatched and tiled huts.

4. A memorandum of the fires, and also a statement of the receipts and expenditure of the Brigade, are enclosed.

5. During the year under reference, 28 persons were prosecuted in the town of Calcutta under the Indian Explosives' Act IV of 1884, for the manufacture, possession and sale of fireworks, and of these 26 were convicted and 2 acquitted.

6. No license for the sale of fireworks was withdrawn during the year.

1814 SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 10, 1890.

Memorandum of Fires in the Town and Suburbs of Calcutta and in Howrah from 1st April 1889 to 31st March 1890.

Number.	Date.	Locality with section letter.	Duration of fire.	Approximate value of property destroyed.	Remarks, showing nature of damage done, &c.
Town.					
1	6th June 1889	Jorabagan, Section E, Town.	3 hours and 30 minutes	15,000	Several tiled huts and a large godown with iron roof containing tobacco, oil and tar. One man was burnt to death at the fire.
2	6th October	Bichalighat, 1st Division, River Police.	2 hours and 40 minutes	300	Three boats laden with straw.
3	17th December	Kamal Mitter's Ghat Street, Section B, Town.	1 hour	Nil	A quantity of oiled cotton waste and rubbish inside an oil mill. Damage nominal.
4	19th	Wellcley Square, Section N, Town.	2 hours and 15 minutes	4,000	Four large tiled huts.
5	6th January 1890	Manicktollah Bazar, Section D, Town.	2 hours and 15 minutes	380	A pucca building with tiled roof containing cloth, kerosene oil and tobacco.
6	16th	River, 1st Division, Port Police.	2 hours and 25 minutes	3,800	India General Steam Navigation Company's flat <i>Nizam</i> , containing 6,000 drums of jute.
7	3rd February	Posta Bazar, Section E, Town	12 hours and 15 minutes	93,000	Three dwelling houses, fifty-three two-storied shops, and a large quantity of grain, potatoes and country produce.
8	11th	River, 1st Division, Port Police.	4 hours	10,340	Four boats laden with straw and one laden with jute.
9	26th	Moonshee Bazar, Section I, Town.	2 hours	300	Six tiled huts.
10	18th March	Chitpore Road, Section E, Town.	2 hours and 30 minutes	3,000	Four tiled houses and a quantity of timber.
11	29th	Hogg Street, Section M, Town	1 hour	3,225	Eleven shops and tiled houses occupied by petty dealers and containing ghee, sugar, flour, kerosene oil, dried fruits, &c.
11	Total fires			1,33,025	
Suburbs.					
1	24th April 1889	Tallygunge Bridge Road, Section K, Suburbs and 24-Per-gunnahs.	5 hours and 45 minutes	5,000	Eighty-four tiled huts and a quantity of grain and timber.
2	16th May	Naroldangah, Section E, Suburbs.	4 days and 3 hours	60,000	A large quantity of hay and straw and fourteen tiled huts.
3	6th June	Alipore, Section L, Suburbs	4 hours and 35 minutes	1,000	Twenty-five tiled huts.
4	6th December	Chitpore, Section B, Suburbs	4 hours and 45 minutes	5,000	A large quantity of baled jute stacked in the compound of the Strand Bank Press.
5	12th	Ditto ditto	45 minutes	50	Two golputta huts, each containing seven rooms.
6	24th	Ditto ditto	3 hours and 30 minutes	2,000	A quantity of loose jute in the yard at the back of the Calcutta Hydraulic Press.
7	24th	Tindal Bagan, Section B, Suburbs.	Lasted for a short time. Was extinguished by the Khalkassees of the Brigade with buckets and tubs.	40	One golputta hut.
8	4th January 1890	Canal, Section C, Suburbs	4 hours and 15 minutes	120	A boat laden with straw.
9	5th	Baranagore, Section A, Suburbs.	1 hour and 45 minutes	100	A kutcha hut containing a sweetmeat shop.
10	14th February	Cossipore Road, Section B, Suburbs.	Extinguished by the Fire Brigade Inspector with his native staff by means of buckets.	60	A cart load of fourteen drums of jute.
11	19th	Canal Road, Section B, Suburbs.	A small fire. Put out by the neighbours.	30	A small tiled hut.
12	25th	Strand Bank Press, Section B, Suburbs.	Extinguished by the coolies of the Press.	Nil	Some refuse loose jute on the terrace of the Strand Bank Press kept near the chimney.
13	26th	Canal Road, Section B, Suburbs.	3 hours and 10 minutes	100	Two tiled and three golputta huts.
14	6th March	Canal Road, Section E, Suburbs.	6 hours	2,600	Twenty-nine golputta and two tiled huts.
15	9th	Bentally, Section F, Suburbs	1 hour and 20 minutes	75	One tiled hut and a quantity of charcoal.
16	10th	Chitpore, Section B, Suburbs	6 days; steam-engine for 2 days, and manual engine for 4 days.	2,70,000	Press-house of the Bengal Hydraulic Jute Press, containing 9,000 bales of jute.
17	19th	Narikel Bagan, Section B, Suburbs.	Petty fire. Extinguished before the arrival of the Brigade.	15	One golputta hut.
18	17th	Ditto ditto		Nil	A portion of golputta hut.
18	Total fires.			3,26,200	
Howrah.					
1	27th August 1889	Debasan's Road, Howrah	1 hour	75	A large tiled hut.
2	29th November	Golaboree, Howrah	1 hour	50	A tiled hut.
3	14th January 1890	Sechpore, do.	1 hour and 10 minutes	50	Two small tiled huts.
4	27th	Kantrah, do.	3 hours and 35 minutes	150	Six thatched huts.
5	6th February	Sechpore, do.	30 minutes	100	A large tiled hut.
6	7th March	Do. do.	30 minutes	50	A tiled hut.
7	28th	Bantrah, do.	2 hours	100	A large cowshed.
7	Total fires.			575	
36	Total number of fires at which the Brigade were in attendance.		GRAND TOTAL	4,60,800	

CALCUTTA,
The 14th August 1890.

J. LAMBERT,
Commissioner of Police.

SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 10, 1890. 1815

Statement showing the Actual Receipts and Disbursements of the Fire Brigade Fund for the year ending 31st March 1890.

RECEIPTS.	Budget estimate for 1889-90.	Actual receipts for 1889-90.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Balance on 31st March 1889	21,423 0 0	16,683 4 5		
Contribution of 80 per cent. from Town Corporation	20,855 0 0	22,034 12 10	1,179 12 10	
Ditto ditto from Suburban Municipality	27,204 0 0	24,297 4 9		2,907 15 1
Ditto ditto from Howrah Municipality	4,040 0 0	4,060 0 0		20 0 0
Fines under Jute Warehouse Act	100 0 0			100 0 0
Fees for licences for fireworks in Town	200 0 0	50 0 0		150 0 0
Ditto ditto Suburbs	200 0 0			200 0 0
Hire of fire engines	200 0 0	50 0 0		150 0 0
Sale proceeds of canvas hose		20 0 0	20 0 0	
Fines under Petroleum Act	200 0 0	768 0 0	568 0 0	
Fines ditto ditto	100 0 0	147 0 0	47 0 0	
Total	53,705 0 0	51,436 1 7	1,733 12 10	4,092 11 3
PAYMENTS.	Budget estimate for 1889-90.	Actual charges for 1889-90.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
<i>Establishment at Lall Bazar.</i>				
1 Superintendent at Rs. 200	2,400 0 0	2,400 0 0		
1 Engineer " 160	1,920 0 0	1,920 0 0		
1 Driver " 120	1,440 0 0	1,440 0 0		
1 Fireman " 10	120 0 0	120 0 0		
3 Tindals " 10 each	300 0 0	300 0 0		
10 Khallases " 7	1,512 0 0	1,748 4 0		236 12 0
11 Syces " 7	924 0 0	924 0 0		
Personal allowance to three tindals	72 0 0	72 0 0		
Total	8,748 0 0	8,482 4 0		265 12 0
<i>Contingencies.</i>				
Feed and keep of horses including shoeing, veterinary attendance, and repairing harness, &c.	3,200 0 0	4,227 2 9	1,027 2 9	
Lighting Engineers' and Drivers' quarters and Fire Brigade stables	360 0 0	360 0 0		
Accoutrements for the European members of the Fire Brigade supplied every year	650 0 0	637 5 10	7 5 10	
Extra pay of European members of the Brigade, at Rs. 5 for each attendance at fire	1,500 0 0	990 0 0		510 0 0
Rent	3,242 0 0	3,020 7 3	221 12 7	
Pension	1,267 0 0	1,267 8 11	8 11	
Gratuities to persons giving notice of fire	100 0 0			100 0 0
Cost of a new horse brake				
Cost of engine, fittings and accessories	Rs. 11,004-4			
Less sale-proceeds of engine	3,300-0			
Canvas hose	4,000 0 0	3,204 4 0	795 16 0	795 16 0
Purchase of two horses	1,200 0 0	1,400 0 0	200 0 0	
Harness for ditto	500 0 0	620 0 0	120 0 0	
Repairs of buildings	2,000 0 0			2,000 0 0
Implements	1,000 0 0	9 6 0		990 10 0
Repairs of engines and brakevans	1,500 0 0	1,030 8 8	469 11 2	
Maintenance of telegraph lines	4,007 0 0	3,373 0 0	634 0 0	
Petty contingencies, including coal, wood, &c.	2,000 0 0	1,450 9 9	549 10 1	
Total	29,046 0 0	27,045 8 2	10,127 12 0	9,728 7 7
<i>Howrah Establishment.</i>				
1 Superintendent at Rs. 20	240 0 0	240 0 0		
1 Engineer " 120	1,440 0 0	1,440 0 0		
1 Tindal " 10	120 0 0	120 0 0		
1 Fireman " 10	120 0 0	120 0 0		
3 Tindals " 8 each	240 0 0	240 0 0		
10 Khallases " 7	1,008 0 0	1,008 0 0		
6 Ditto " 6	432 0 0	432 0 0		
1 Engine-driver " 10	120 0 0	120 0 0		
3 Syces " 7 each	252 0 0	252 0 0		
Total	4,020 0 0	4,014 0 0		6 0 0
<i>Contingencies.</i>				
Feed and keep of horses, including shoeing, veterinary attendance, repairs of harness, &c.	780 0 0	977 7 6	197 7 6	
Rewards to informers giving notice of fire	50 0 0			50 0 0
Repairs of engines and brakevans	500 0 0	225 4 0	275 0 0	
Steam-engine hose and gear	200 0 0			200 0 0
Purchase of horses	600 0 0	648 0 0	48 0 0	
Hose-cart				
Repairs and construction of buildings and look-out	13,037 12 0	12,607 10 4	430 2 8	
Contingencies, oil, soap, cotton waste, &c.	500 0 0	333 11 0	166 8 0	
Total	15,637 12 0	15,553 0 10	83 5 10	600 1 0
<i>Bhowanipore.</i>				
1 Tindal, at Rs. 10 each	240 0 0	240 0 0		
10 Khallases, at Rs. 7	1,008 0 0	1,008 0 0		
Total	1,248 0 0	1,248 0 0		
<i>Walgunge.</i>				
3 Tindals, at Rs. 10 each	240 0 0	240 0 0		
10 Khallases, at Rs. 7	1,008 0 0	1,008 0 0		
Total	1,248 0 0	1,248 0 0		
<i>Palmer's Bridge.</i>				
3 Tindals, at Rs. 10 each	240 0 0	240 0 0		
10 Khallases, at Rs. 7	1,008 0 0	1,008 0 0		
Total	1,248 0 0	1,248 0 0		
Carried over	58,785 12 0	59,168 10 0	11,043 8 9	10,680 4 7

1816 SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 10, 1890.

PAYMENTS.	Budget estimate for 1889-90.	Actual charges for 1889-90.	Increase.	Decrease.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Brought over	58,798 12 0	59,168 10 0	11,083 2 7	10,690 4 7
<i>Chitpore.</i>				
1 Engineer, at Rs. 120	1,440 0 0	1,440 0 0		
1 Tindal and 1 fireman, at Rs. 10	240 0 0	240 0 0		
1 Driver, at Rs. 15	180 0 0	180 0 0		
12 Khellances, at Rs. 7 each	1,004 0 0	1,004 11 8		3 4 4
3 Bycos, at Rs. 7 each	252 0 0	252 0 0		
Total	3,120 0 0	3,116 11 8		3 4 4
<i>Contingencies.</i>				
Feed and keep of horses	750 0 0	870 15 6	120 15 6	
Repairs of engines and hose-cart	400 0 0			400 0 0
Steam-engine hose and gear	1,000 0 0			1,000 0 0
Purchase of horses	600 0 0			600 0 0
Petty contingencies, including coal, oil, &c.	500 0 0	304 2 6		195 19 6
Repairs of buildings		206 3 6	206 3 6	
Total	3,250 0 0	1,473 6 6	417 3 0	2,183 12 6
Travelling allowance for inspecting Petroleum Depôts	360 0 0	800 0 0		
Total	65,525 12 0	64,118 18 2	11,480 5 7	12,887 5 5
Balance on 31st March 1890	9,082 4 0	3,989 9 10		
Total	76,316 0 0	68,118 6 0	11,480 5 7	12,887 5 5

J. LAMBERT,
Commissioner of Police.

CREATION OF A FREE STUDENTSHIP IN THE SANSKRIT COLLEGE.

GENERAL DEPARTMENT—EDUCATION.

Calcutta, the 6th September, 1890.

RESOLUTION.

READ—

A letter from the Director of Public Instruction, No 4808, dated the 29th August, 1890, regarding the offer of Sreemati Sati Devi of Chaudannagar to create a free studentship in the Sanskrit College.

The Director of Public Instruction reports that Sreemati Sati Devi of Chandannagar has offered through the Principal of the Sanskrit College to make over 4 per cent. Government securities of the nominal value of Rs. 600 for the creation of a free studentship in the First Arts class of that College for the benefit of a son of a Bhattacharyya Brahmin, on condition that the fee payable by such free student be fixed at Rs. 2 a month, and that the free student be called "Sati Devi's scholar." The Lieutenant-Governor is pleased to accept this offer, and tenders the thanks of Government to the donor for her liberality. The Principal of the Sanskrit College will be the administrator of the fund.

ORDER.—Ordered, that a copy of this Resolution be forwarded to the Director of Public Instruction for information and communication to the donor.

Ordered also, that a copy of this Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,
Secretary to the Government of Bengal.

RESOLUTION ON THE ANNUAL REPORT OF THE MARINE
DEPARTMENT FOR 1889-90.

No. 2370 Marine.

GOVERNMENT OF BENGAL—MARINE DEPARTMENT.

RESOLUTION.

Dated Calcutta, the 4th September 1890.

READ—

The Annual Report of the Port Officer of Calcutta for the year 1889-90.

Lieutenant E. W. Potley, R.N., was in charge of the Port Office throughout the year, and the report is submitted by him.

2. The building for the Port and Shipping Offices was not completed during the past year, as was expected at the time when the Annual Report of the Marine Department for 1888-89 was reviewed. It is now nearly finished.

3. The strength of the Pilot Service at the end of the year was 60 pilots of all grades and 17 leadsmen apprentices. The number of pilots now accords with the scale which was sanctioned in the orders dated the 4th July 1888. No leadsmen apprentices were appointed during the year.

4. The leadsmen apprentices still occupy the two houses at Garden Reach rented by Government for their accommodation, and the premises are reported to be admirably suited for the purpose. These quarters were, as in the year before, under the management of a Mess Committee, and the Port Officer, who inspected them frequently during the year, found them to be in excellent order.

5. The following statement shows the number of arrivals and departures during the past two years:—

		1888-89.			1889-90.		
		Number.	Gross tonnage.	Net tonnage.	Number.	Gross tonnage.	Net tonnage.
Arrivals	...	1,037	2,245,867	1,615,935	1,038	2,250,948	1,604,153
Departures	...	1,054	2,240,441	1,608,656	1,018	2,202,819	1,570,776
Total	...	2,071	4,486,301	3,224,591	2,056	4,453,767	3,174,929

6. These figures are exclusive of 13 light-vessels, 13 pilot brigs, and 34 other Government vessels; 2 vessels put back, 7 steam-tugs, which are constantly moving up and down the river, and the steamers trading to the Orissa ports. Of these there were 133 arrivals and 134 departures. They do not also include the native craft.

7. The size and draft of steamers visiting the port still continue to increase. One hundred and forty-three steamers, drawing over 21 feet, entered the port during the year under review, against 120 in the year before.

8. The average number of vessels piloted by the several grades of the Pilot Service, with the exception of the Junior Masters, was in excess of that of the preceding year. The number, however, that fell to the share of Junior Masters came down from 3.26 a month in 1888-89 to 3.13 during the year under review. It is very difficult to reconcile all the interests involved in the division of tonnage amongst the several grades of pilots, but on the whole the arrangement which was sanctioned in the orders of the 4th July 1888 has worked well so far.

9. Thirty-nine cases of grounding and five of collision took place during the year, against 50 and 12 in the year before. None of these casualties, however, resulted in the loss of a vessel, and in one only was serious damage done. The collisions were all accidental, but as regards the groundings blame was attached to the pilots in ten cases. Eight of these were due to error of judgment, one to inattention, and one to unskillfulness. The remaining cases of grounding were either accidental or unimportant, or due to alteration of channel.

The percentage of casualties amounted to 2·14, against 2·99 in the year before and 2·84 in 1887-88. The reduction of the percentage is satisfactory.

10. The Eastern Channel and the lower part of the Gasper have remained unaltered, but the channel between the Longsand and the Upper Gasper light-vessels deteriorated considerably. The channel between the Longsand light-vessel and the Longsand spit buoy has also shoaled somewhat, and there is no anchorage for deep vessels anywhere between the Lower Eastern Gasper and the Longsand spit buoys. The Eden Channel has improved, and has 17 feet of water in the best track over the bar. It is stated that seven inward-bound vessels and two outward-bound were delayed for want of sufficient water over the bars. This does not, however, take account of vessels being kept in the port for want of water over the bars during certain stages of the tides. Were these cases included, the number of outward-bound vessels delayed would be higher.

11. The new steamer *Guide*, which was built in England to take the place of the *Undaunted*, arrived towards the close of the year, and was, after being surveyed, taken over from the builders and fitted out for duty. The vessel is well fitted in every way for the service on which she is employed. She has, since the close of the year, been taken over by the Government of India in the Marine Department. The new pilot brig *Fame* arrived at the beginning of the year. Considerable expenditure had to be incurred on alterations and in rectifying defects to make her fit for the work of a pilot brig. The *Sarsuti* was thoroughly overhauled, cleaned and painted during the year, and is reported to be in good condition. The hull, rig and equipment of the *Coleroon* were thoroughly repaired to render her efficient with the usual ordinary repairs for some years to come. The new launch for the Port Officer has been completed since the close of the year.

12. One hundred and twenty-four candidates were examined for colonial and local certificates of competency of various grades, of whom 88 passed. Of the successful candidates, 19 obtained colonial certificates of competency as master, 24 as first mate, 3 as only mate, 17 as second mate, 3 as first class engineer, and 6 as second class engineer. The local certificates consisted of 1 master's, 1 first mate's, 2 second mate's, 4 second class engineer's, and 44 engine-driver's. One candidate obtained a license as a steam-tug pilot, and three certificates as master were granted under Act VI of 1884. The licenses of two of the native pilots were renewed, 14 new permits were granted to native coasters and 6 were renewed. Five vessels were registered under the English Merchant Shipping Act of 1884, and the registry of three was cancelled.

13. The Government of India having asked for a separate report on the working of the Native Passenger Ships Act, 1887, the number of certificates issued during the year is not given in the report under review.

14. Lieutenant Petley's management of the department during the year was entirely satisfactory.

By order of the Lieutenant-Governor of Bengal,

J. M. McNEILE, Col., R.E.,
Secretary to the Government of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 6th September, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
BURDWAN DIV.	1 Burdwan Sept. 6, '90	4.74	Weather—hot and clear. Prospects of crops good. Rain wanted in certain parts of the district. Prices of common rice:—
	Culina ...	6.31	
	Cutwa ...	1.19	
	Ranigunge ...	0.88	
	2 Bishnupur .. 6, '90	1.00	Weather—fine and warm. More rain wanted. <i>Aus</i> ripening. <i>Amra</i> on high land suffering for want of moisture. Sugarcane doing well. Common rice selling at 19 seers per rupee at Sudder and 18 seers at Bishnupur.
	3 Birbhum .. 6, '90	0.28	A decided break in the rains, which is very good for weeding operations. Prospects of crops continue to be excellent. Prices of rice range from 16 to 19 seers per rupee.
	Ranpore Haut ...	0.78	
	4 Midnapur .. 6, '90	2.75	Weather—sultry. Rain general except in the Contai subdivision, which reports none up to 4th instant. More rain wanted for rice crop. Prices of common rice:—
			Srs. Ch. Sudder ... 16 0 Contai ... 16 0 Tumlook ... 14 3 Ghatal ... 16 0 } per rupee.
	5 Hooghly .. 6, '90	2.08	Temperature has increased considerably. Weather generally fair with occasional heavy showers. State and prospects of crops satisfactory. Prices of common rice:—
	Serampore ...	4.83	
	Jehanabad ...	0.04	
PRESIDENCY DIV.	Howrah .. 6, '90	0.45	Weather—fair except for a few showers. More rain wanted for <i>amra</i> crop. Harvesting of <i>aus</i> crop begun. Prospects of crops still continue satisfactory. Price of common rice 13 to 14 seers per rupee.
	Uluberiah ...	1.21	
	<i>Central Districts.</i>		
	6 24-Parghs. Sept. 9, '90	1.21	Weather—hot and clear. Prospects of all standing crops continue good except those in the northern parts of the Bussirhat subdivision, which are said to have been affected by the floods. Transplantation of <i>amra</i> nearly finished. Harvesting of <i>aus</i> and jute going on. Prices stationary.
	7 Nuddea .. 6, '90	2.61	Weather—sunny and hot. Harvesting of <i>aus</i> still going on. Flood has slightly gone down. Price of common rice 13 seers per rupee.
	Kuchla ...	4.28	
	Meherpore ...	1.52	
	Chundanga ...	0.78	
	Ranaghat ...	4.17	
	8 Khoolna .. 6, '90	0.17	Weather—very hot at head-quarters, rainy in Satkhira. Floods in the northern part of the district, and crops on low lands submerged and destroyed. <i>Aus</i> is being harvested; outturn will be about 10 annas. Transplantation of <i>amra</i> going on. Prices of food-grains rising.
RAJSHAHY DIV.	9 Jessore .. 6, '90	0.16	Weather—hot with occasional light showers. Flood reported to be falling in Magura and Jhenidah; rising in Bongong. Nacail report not received. Ten annas of <i>aus</i> crop and a large portion of jute crop said to have been destroyed in Bongong and Jhenidah. Fodder very scarce in Bongong.
	Jhenidah ...	3.86	
	Magura ...	1.04	
	Bongong ...	1.90	
	10 Moorsheebad .. 6, '90	1.33	Weather—hot, river falling gradually. <i>Aus</i> is still being harvested. Transplantation of <i>amra</i> going on. Distress in affected areas being relieved.
	11 Dinagpur .. 6, '90	1.14	Weather—warmer. Prospects of crops continue to be favourable. Price of rice unchanged.
	Thakurgaon ...	2.74	
	12 Rajshahye .. 6, '90	2.82	Weather—hot and cloudy with rain at intervals. In thanas Tanore, Charghat, Barnigram, Lalpur, and Pauchupore <i>aus</i> about 2 to 3 annas, jute and a little <i>amra</i> paddy submerged. In the remaining thanas no damage done. Prospects of winter paddy and sugarcane are as yet good. Flood receding.
	Natore ...	1.08	
	Nowgong ...	1.82	
RAJSHAHY DIV.	13 Rangpur .. 6, '90	2.77	Weather—cloudy with frequent heavy showers. A good deal of damage reported from the Babanuputra chura owing to a sudden rise of that river. Otherwise prospects are excellent all round.
	Nilphamari ...	5.37	
	Kurigram ...	2.46	
	Gaibanda ...	4.29	
	14 Pargna .. 6, '90	5.75	Weather—cloudy; south-east wind. <i>Aus</i> and jute are still being reaped. Transplantation of <i>amra</i> still going on. Prospects of crops good. Common rice selling at 18 seers per rupee.
	Sherpur ...	7.67	
	Nowkhilla ...	6.14	
	15 Pubna .. 6, '90	0.55	Weather—hot and cloudy. Jute is being cut. Outturn of <i>aus</i> expected to be 12 annas. Prospects of <i>amra</i> continue good except on low lands. Prices stationary.
	16 Darjeeling .. 6, '90	4.69	Weather—rainy with occasional breaks. Constant showers of rain are doing much good to the winter rice at Terai. <i>Bhatta</i> , <i>chota marua</i> , and potatoes are being harvested. <i>Udadi</i> and <i>bara marua</i> progressing well.
	17 Jalpigoree .. 6, '90	6.70	Weather—rainy and cloudy. Transplantation of <i>haimanti</i> paddy not yet finished. Harvesting of jute and <i>aus</i> paddy going on. Price of rice unchanged.

No.	District and date of return.	Rainfall at under Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL—concluded.			
Eastern Districts.			
Dacca Divn.	18 Dacca Sept. 6, '90	1.06	Weather—seasonably warm and mostly cloudy. <i>Aus</i> paddy and jute being harvested. Some damage done to these crops owing to high flood. <i>Amun</i> paddy thriving. Fodder available, but not in abundance. Common rice sells at from 13 to 15 seers per rupee.
	19 Furreedpur „ 6, '90	0.03	Weather—hot and close. The river has risen more than a foot and-a-half above the last year's highest flood-level. Only about 8 annas of the <i>aus</i> crop could be reaped, and the <i>amun</i> has been damaged to the extent of about 2 annas. If the flood continues to be at its present level for some time more, the damage will be considerable. Price of rice stationary.
	20 Backergunge „ 6, '90	0.84	Weather—hot. Outturn of <i>aus</i> crop estimated at 12 annas. <i>Amun</i> seedlings in many places damaged by high water, and transplantation not yet finished. Common rice selling at about 13 seers per rupee.
	21 Mymensingh „ 6, '90	2.94	Weather—cloudy and hot with occasional rainfall. Harvesting of <i>aus</i> and jute still continues. Transplantation of <i>amun</i> not yet over. Standing crops promising and favourable. Common rice sells at 18½ seers per rupee.
Chittagong Divn.	22 Chittagong „ 6, '90	7.28	Weather—seasonable. About eight annas of <i>aus</i> cut. <i>Amun</i> transplanted to about ten annas of land by this time. Prospects favourable. Prices steady.
	23 Noakholly „ „	.....	Report not received.
	24 Tipperah „ 6, '90	1.18	Weather—cool and wet at beginning of week, hot and dry at its close. Jute and <i>aus</i> rice being cut. River water unusually high. Price of rice has risen about 3 annas a maund in Chandpore.
	25 Chittagong Hill Tracts. „ „	.....	Report not received.
BEHAR.	Hill Tipperah „ 5, '90	1.01	Weather—hot and sultry. Transplanting of <i>amun</i> finished. Prospects of crops generally fair. Prices almost stationary.
	26 Patna „ 6, '90	Nil	Weather—very hot. Transplantation of paddy nearly finished. <i>Bhadoi</i> crops are being harvested; outturn reported to be poor. Sugarcane doing well. Prices of food-grains generally stationary.
	Barb „ „	0.30	
	Behar „ „	1.61	
PATNA Divn.	Dinapore „ „	0.95	
	27 Gya „ 6, '90	Nil	Weather—clear. <i>Bhadoi</i> crops are being harvested. Paddy and sugarcane doing well. Prices of food-grains almost stationary.
	28 Shahabad „ 6, '90	0.02	Weather—hot. <i>Bhadoi</i> is being harvested in Sasseram and Rhabuah with an outturn of about four annas. Paddy prospects good. Prices stationary.
	Buxar „ „	1.20	
	Rhabuah „ „	0.05	
	Sasseram „ „	Nil	
	29 Darbhanga „ 6, '90	0.18	Weather—hot and close. Harvesting of <i>marua</i> and <i>makai</i> in progress; outturn expected to be from 8 to 12 annas on an average. Bagmati has again risen, and crops on low-lying lands submerged. Rice crop elsewhere doing well. Prices rising.
	Somastipur „ „	1.74	
	30 Mozafferpur „ 6, '90	Nil	The week has been dry, and no sign of rain at the time of report. Bagmati has risen and flooded a large area of country. Extent of damage cannot at present be ascertained. <i>Makai</i> is being gathered. Prices stationary.
	31 Sarun „ 6, '90	Nil	Weather—fine and clear. In Sewan and Gopalgunge the <i>bhadoi</i> will be a 3-anna crop and the rice a 12-anna crop; elsewhere nil. Prospects of indigo khunta very bad.
	32 Champaran „ 6, '90	Nil	Weather—fine and hot; the season is apparently changing. <i>Makai</i> ripening. <i>Bhadoi</i> rice and <i>kodo</i> being reaped. Winter rice coming on well. Prices almost stationary.
	33 Monghyr „ 6, '90	0.02	Weather—hot and bright. Prospects of winter rice continue favourable. Harvesting of <i>bhadoi</i> finished. Average outturn about 5 annas.
	Begusserai „ „	2.25	
	Jamui „ „	1.23	
	34 Bhagunpore „ 6, '90	Nil	Weather—clear. No rain except slight falls in northern parts and Banka. <i>Bhadoi</i> is being harvested; estimated outturn 12 annas. Prospects of winter rice generally good.
	Banka „ „	0.51	
	Mudhepura „ „	0.8	
	Sopool „ „	1.0	
	35 Patna „ 6, '90	0.54	Weather—fine with passing showers. A break in the rains has favoured the <i>bhadoi</i> harvest. Over three-fourths of the early rice has been cut with an outturn of 14 annas. Winter rice promising well except in a few villages in the Arracah subdivision and in the Bahadurgunge and Bahrampur thannas. Damage by floods less than expected. Outturn of jute crop 14 annas.
	Kishengunge „ „	6.37	
	Arracah „ „	2.36	
	36 Maldah „ 6, '90	0.04	Weather—very hot. Harvesting of <i>bhadoi</i> paddy over. Jute is being cut; a 12-anna crop expected. Winter rice plants thriving. <i>Kalus</i> is being sown in certain places within the jurisdiction of Manickchak outpost. Prices of common rice continue to be from 12 to 17 seers per rupee.
	Chanchal „ „	1.35	
	Embrunge „ „	0.16	
	Gajole „ „	2.41	
	37 Sonthal Pergba. „ 6, '90	0.12	Weather—generally fine. Paddy benefited by the recent break, but more rain wanted in Deoghur. <i>Makai</i> has turned out a poor crop.
	Deoghur „ „	0.7	
	Godda „ „	0.13	
	Jamtara „ „	2.42	
	Pakour „ „	0.20	
	Rajmoh „ „	0.57	

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
ORISSA.			
ORISSA DIVN.	28 Cuttack Sept. 6, '90	1.86	Weather—hot. Harvesting of <i>satika</i> paddy going on. <i>Sarad</i> paddy crop suffering from want of rain in the Jajpur subdivision as well as in the Bishama and Kishannagar outposts of the Sudder subdivision. Prospects elsewhere good.
	Pooros „ 4, '90	3.45	Weather—seasonable. Weeding of <i>sarad</i> crop going on. <i>Beali</i> is being harvested. The subdivisional officer reports that diseases called <i>kakalla</i> and <i>kaldi goondi</i> have appeared in the <i>sarad</i> crop. Price of common rice ranges from 18 seers 6 chittacks to 21 seers per rupee.
	Kuoroda „ „	0.82	
	29 Banpur „ „	2.07	
	40 Balasore „ 6, '90	0.29	Weather—hot and dry. Fairly good rain has fallen at Bhuddruck, but most parts of the Sudder subdivision are suffering greatly from drought. Prices rising.
CHOTA NAAGPORE.			
<i>South-West Frontier Agency.</i>			
CHOTA NAAGPORE DIVN.	41 Hazaribagh Sept. 6, '90	Nil	Weather—fine and bright and very warm. Rice crop doing well, but more rain is now wanted. <i>Gundli</i> , <i>marua</i> , <i>goradhan</i> , and Indian-corn are being harvested: all below average. Prices about stationary.
	42 Lohardugga „ 6, '90	Nil	Weather—hot and cloudy. Reaping of <i>gundli</i> going on. Prospect of <i>blades</i> good. Rain wanted for winter rice. No material change in prices of food-grains.
	Palamow (up to 1st Sept.)	3.10	
	43 Singhbhum Sept. 6, '90	1.34	Much more rain wanted, but there seems to be but little hope of any at present. No further damage reported to the rice crop, but unless good rain falls within the next week, much damage will be done. Price of common rice shows a tendency to rise.
	44 Manbhum „ 6, '90	0.27	Weather—very hot. Break in the rains doing great harm to winter rice crop. Rain urgently wanted. Common rice selling at from 18 to 22 seers per rupee.
	Govindpore „ „	0.24	

Published for general information.

CALCUTTA; REVENUE DEPT.,
The 9th September, 1890.

P. NOLAN.
Secy. to the Govt. of Bengal.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

		QUANTITIES PER RUPEE IN																	
		WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
Number.	DISTRICTS.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
BENGAL.																			
Western Districts.																			
		S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.
1	Burdwan	14 8	14 8	12 8	...	...	...	12 0	12 0	11 4	15 15	15 9	13 14	...	...	...	...	...	...
2	Bankoora	15 4	15 8	13 4	20 0	20 0	17 0	15 0	16 0	14 8	18 0	19 0	17 8	...	...	...	...	...	...
3	Beerbhoom	17 0	16 8	16 0	...	...	...	13 8	13 8	12 12	16 8	16 8	14 4	...	...	...	...	...	...
4	Midnapore	11 0	11 0	13 6	...	...	...	13 0	13 0	12 0	16 0	15 8	16 0	...	...	...	...	...	...
5	Hooghly	13 0	13 0	18 0	...	...	...	8 0	8 0	8 0	13 0	13 0	12 0	...	...	...	...	...	...
	Howrah	...	...	...	...	...	...	10 0	9 0	10 0	13 4	13 4	12 8	...	...	...	...	...	...
Central Districts.																			
	Calcutta	13 9	13 8	13 5	17 4	17 8	16 10	8 15	9 2	8 13	13 1	13 8	13 5	17 6	18 7	15	...	...	...
6	24-Pargunnahs	14 8	15 0	15 3	13 12	18 0	16 8	8 0	8 0	7 0	14 0	13 4	13 0	...	...	...	...	...	...
7	Nudda	15 10	15 13	14 0	17 12	20 0	17 12	11 6	11 6	10 10	13 0	13 0	13 9	...	...	...	...	...	...
8	Khoolna	...	...	...	...	...	...	10 8	11 3	10 12	12 8	13 1	12 12	...	...	...	...	...	...
9	Jessore	13 4	13 4	12 6	...	...	...	11 0	11 0	11 0	13 0	14 0	12 0	...	...	...	...	...	...
10	Moorshedabad	16 0	16 12	14 0	...	...	...	10 0	19 0	10 0	15 6	14 8	13 0	...	...	...	...	...	...
11	Dinapore	15 0	13 12	13 8	18 0	21 5	23 0	12 0	12 0	12 0	15 8	15 8	16 8	...	...	...	...	...	...
12	Rajahmbye	15 0	15 0	15 0	22 8	22 8	18 12	12 0	12 0	10 8	13 8	14 4	12 14	...	...	...	...	...	...
13	Rangpore	13 5	13 5	13 5	...	...	...	9 6	9 6	9 7	13 5	13 5	10 5	...	...	...	...	...	...
14	Bogra	15 0	15 12	13 2	...	...	...	12 0	12 0	10 8	15 0	15 12	12 12	...	...	...	...	...	...
15	Pubna	18 12	18 0	16 8	...	...	...	7 0	7 2	7 5	15 6	15 6	13 8	...	...	...	...	...	...
16	Darjeeling	8 0	8 0	10 0	10 0	10 0	10 0	5 0	5 0	5 0	11 0	11 0	11 0	...	...	...	...	...	...
17	Julpigoree	14 0	13 0	11 0	6 0	16 0	16 0	8 0	8 0	8 0	14 0	16 0	13 0	...	...	...	...	...	...
Eastern Districts.																			
18	Isaon	12 0	12 0	13 0	13 0	13 0	26 0	12 0	12 0	12 0	14 0	14 0	12 12	...	...	...	...	...	...
19	Furzedpore	16 0	16 0	15 0	20 0	20 0	16 0	10 0	10 0	9 0	14 0	14 0	11 0	...	...	...	...	...	...
20	Backergunge	...	...	...	...	...	...	11 10	11 14	11 4	13 4	13 5	12 8	...	...	...	...	...	...
21	Mymensingh	11 8	11 8	9 12	...	...	...	11 0	11 0	11 8	13 8	13 8	12 0	...	...	...	...	...	...

- A In subdivisions retail prices of salt per rupee are:—Cuttack 10 seers, Cutwa 10 seers 8 chittacks, and Kanungunge 10 seers.
 B At Rampore retail price of salt 9 seers per rupee.
 C In subdivisions retail prices of salt per rupee are:—Guntur 8 seers, Tumlook 8 seers, and Ghatal 11 seers.
 D In subdivisions retail prices of salt per rupee are:—Barrackpore 11 seers and Jahadatal 10 seers 1 chittack.
 E In subdivisions retail prices of salt per rupee are:—Barrackpore 10 seers 2 chittacks, and Dum Dum 10 seers.
 F In subdivisions retail prices of salt per rupee are:—Mithrapore 10 seers, Koushtia 10 seers, Choondanga 10 seers, and Ranaghat 9 seers 2 chittacks.
 G In subdivisions retail prices of salt per rupee are:—Bakhtira 10 seers and Bapnihat 8 seers.
 H In subdivisions retail prices of salt per rupee are:—Jhenai 9 seers, Magura 10 seers, Narnil 9 seers, and Rangong 10 seers.
 I In subdivisions retail prices of salt per rupee are:—Lalbagh 9 seers, Jungipore 10 seers, and Kanna 11 seers.

KANONI OR KARUN, ITALIAN MILLET. (<i>Sesaria italica</i> .)	GRAM, CHANA, CHHOLA, KADALAY OR SUNAGA. (<i>Cicer arietinum</i> .)
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Present return.	Next preceding re- turn.	Corresponding re- turn of last year.	Present return.	Next preceding re- turn.	Corresponding re- turn of last year.
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S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.	S.	Ch.
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...	20 0	20 0	16 8					
...	17 0	17 0	14 0					
...	18 12	18 12	16 8					
...	17 0	17 0	15 0					
...	16 0	16 0	16 0					
...	18 12	18 12	17 0					

8 2	8 2	16 13	18 11	18 1	16 4						
7 0	7 0	13 0	21 0	21 0	17 0						
...	...	...	21 5	21 5	16 14						
...	...	...	13 0	13 0	13 0						
...	...	...	16 0	16 0	16 0						
...	...	...	23 8	23 8	18 0						
...	...	...	21 0	19 0	14 8						
...	...	...	21 0	21 12	18 12						
...	...	...	12 4	12 4	13 6						
...	...	...	18 12	16 8	12 0						
...	...	...	18 12	18 0	15 12						
...	...	...	11 0	11 0	10 0						
...	...	...	16 0	17 0	13 0						

...	...	...	12 0	13 0	14 0
...	...	...	16 0	16 0	16 0
...	...	...	17 12	15 4	13 12
...	...	...	14 0	14 0	13 0

Head-quarter Station Buzars of the Districts of Bengal on the 31st August, 1890.

															WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS.
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR TUR, CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT.						
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.				
BENGAL.																		
Western Districts.																		
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	No.	A. P.	A. P.	A. P.	Burdwan.		
...	...	...	20 0	20 0	17 12	100 0	10 0	0 00	A t	10-14-11	10-14-11	10-8-3	3 8 6	3 8 9	3 11 0	
26 0	26 0	19 0	18 0	18 0	14 8	40 0	24 0	24 0	10 4	10 4	10 0	3 15 0	3 15 0	3 15 0	Bankoora.			
...	13 8	13 0	10 8	160 0	160 0	160 0	B	10 8	10 8	10 8	3 10 0	3 10 0	3 10 0		Beerbhoom.	
...	12 0	12 0	12 0	120 0	120 0	160 0	C	10 8	10 8	10 6	3 13 0	3 13 0	3 13 0		Midnapore.	
...	11 0	11 0	13 0	120 0	120 0	120 0	D	9 0	9 0	9 0	3 12 0	3 12 0	3 11 6		Hooghly.	
...	18 0	13 0	12 8	10 0	100 0	100 0	10 8	10 0	10 8	3 9 0	3 11 6	3 10 0	Howrah.			
Central Districts.																		
16 2	19 10	17 12	16 10	16 5	17 10	92 8	92 8	100 0	10 7	10 7	10 4	3 9 0	3 9 3	3 9 6	Calcutta.			
...	...	...	17 0	18 0	18 0	100 0	10 0	100 0	E	10 4	10 8	3 5 6	3 7 0	3 9 6	24-Pergunnahs.	
...	18 13	19 6	16 0	F	9 13	9 13	9 2	3 12 0	3 13 0	3 14 0	Nuddea.		
...	...	...	...	...	...	14 0	140 0	120 0	G	8 8	9 0	4 4 0	4 2 0	4 0 0	Khoolna.
...	...	...	16 0	16 0	16 0	160 0	16 0	160 0	H	9 2	9 2	4 0 0	4 0 0	4 0 0	Jessore.	
...	...	...	17 12	17 12	16 0	200 0	120 0	200 0	I	11 4	10 0	3 8 0	3 8 0	3 10 3	Moorshedabad.	
...	...	...	16 0	15 0	18 0	160 0	160 0	160 0	J	10 0	10 0	4 0 0	4 0 0	3 15 0	Dinagopore.	
...	...	...	18 12	19 1	17 10	240 0	24 0	240 0	K	9 9	9 0	4 0 0	4 2 8	4 0 0	Rajahmalye.	
...	...	...	0 1	10 5	9 7	100 0	100 0	120 0	L	9 6	9 6	4 4 0	4 4 0	4 4 0	Rungpore.	
...	...	...	...	...	...	90 0	90 0	68 9	M k	9 0	9 0	4 2 8	4 2 8	3 14 8	Bogra.
...	...	...	16 8	17 4	17 4	3 0	2 0	30 0	N k	8-11-2	3-11-2	3 15 0	3 15 0	4 0 0	Pubna.	
18 0	18 0	20 0	5 0	8 0	7 0	13 0	120 0	120 0	O	6 8	6 8	5 12 0	6 0 0	5 0 0	Darjeeling.			
...	...	...	11 0	12 0	10 0	2 0	20 0	128 0	9 0	9 0	9 0	4 4 0	4 4 0	4 2 0	Julpigoree.	
Eastern Districts.																		
...	...	...	11 12	11 12	16 0	90 0	90 0	160 0	P	9 8	9 8	4 2 0	4 2 0	3 15 0	Dacca.	
16 0	16 0	19 0	10 0	10 0	14 0	120 0	120 0	120 0	10 0	10 0	9 0	3 14 0	3 14 0	4 4 0	Furzedpore.			
...	...	...	12 14	12 13	11 8	100 0	100 0	120 0	10 10	10 0	10 0	3 12 0	3 14 0	3 14 0	Backergunge.	
...	...	...	13 0	13 0	13 0	...	...	...	R	9 8	9 8	4 0 0	4 2 0	4 0 0	Mymensingh.

J At Thakurgaon retail price of salt 8 seers per rupee.

K In subdivisions retail prices of salt per rupee are:—Natore 9 seers and Nowgong 9 seers 9 chittacks.

L In subdivisions retail prices of salt per rupee are:—Nilphamari 9 seers, Gaibanda 8 seers, and Kurigram 8 seers.

M At Baragunge retail price of salt 10 seers per rupee.

N At Nilguri retail price of salt 8 seers per rupee.

O In Alipore subdivision (at Fallacatta) retail price of salt 8 seers per rupee.

P In subdivisions retail prices of salt per rupee are:—Manickgunge 9 seers, Moonsheegunge 8 seers 14 chittacks, and Netrokona 8 seers.

Q In subdivisions retail prices of salt per rupee are:—Patuakhali 9 seers, Porosopore 9 seers, and Bhola 8 seers.

R In subdivisions retail prices of salt per rupee are:—Kishoregunge 8 seers, Tangail 10 seers, Jamalpore 10 seers, Sherpore 9 seers, and Netrokona 8 seers.

PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

Number.		DISTRICTS.		QUANTITIES PER RUPEE IN																	
				WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.			JOWAR OR CHOLU. (Sorghum Vulgare.)					
				Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.			
Eastern Districts—concluded.																					
22	Chittagong	11 0	11 0	10 0	...	...	...	11 0	11 0	9 0	14 12	14 12	13 0	...	...	...	...	...	...
23	Noakholly	...	...	...	...	...	...	11 0	11 0	11 0	12 0	12 0	12 0	...	...	...	...	...	...
24	Tipperah	11 7	14 8	12 0	...	...	...	8 6	8 14	13 0	12 5	13 5	14 0	...	...	...	...	...	...
25	Chittagong Hill Tracts	...	...	...	...	...	...	11 6	11 6	9 11	12 5	12 5	10 0	...	...	...	...	...	...
	Hill Tipperah	6 0	6 0	6 0	...	...	...	9 0	8 0	8 0	14 0	14 0	13 0	...	...	...	...	...	...
BEHAR.																					
26	Patna	16 12	16 12	16 8	19 8	21 8	19 0	10 0	10 8	10 0	15 5	15 12	15 8	19 8	22 0	19 0	...	...	...
27	Gya	15 12	15 12	14 8	20 0	20 0	20 0	11 0	11 0	9 8	15 0	15 0	12 0	...	...	...	...	...	...
28	Shahabad	16 0	16 0	15 0	20 0	21 0	17 0	8 0	8 0	9 0	15 0	15 0	12 8	...	...	20 0	...	...	...
29	Durbhunga	15 6	16 8	13 12	17 9	18 12	17 2	11 0	11 0	9 2	15 4	16 8	12 0	...	...	17 2	...	...	...
30	Mosufferpore	17 0	17 0	14 0	20 0	20 0	16 8	9 0	11 0	9 0	15 0	14 0	12 0	...	...	...	...	...	...
31	Saran	15 12	15 8	15 0	18 0	19 0	18 0	8 4	8 8	8 4	12 14	13 0	11 0	...	...	...	...	...	...
32	Chumparan	17 0	17 0	13 0	22 0	22 0	16 0	9 0	8 0	7 0	17 0	16 0	12 0	...	...	...	...	...	...
33	Monghyr	17 12	17 12	15 12	21 0	21 0	17 13	11 8	18 8	10 8	14 11	14 11	12 1	...	...	...	...	...	...
34	Bhagulpore	17 11	17 11	16 6	21 7	22 11	17 10	10 1	10 1	10 11	13 7	13 14	12 10	...	...	...	...	...	...
35	Purneah	16 0	16 0	15 0	...	...	...	15 0	15 0	10 0	18 0	17 0	11 0	...	...	...	...	...	...
36	Maidah	18 0	18 0	16 0	...	...	...	12 0	9 0	10 0	14 0	15 8	13 0	...	...	...	...	...	...
37	Sonthal Pergas.	13 0	13 0	12 8	...	...	...	13 0	13 0	12 0	16 0	17 0	15 0	...	...	...	...	...	...
ORISSA.																					
38	Cuttack	15 12	15 12	11 13	...	...	...	10 8	10 8	10 8	18 6	18 6	15 12	...	...	...	...	...	...
39	Pooree	11 8	10 8	10 8	...	...	...	13 6	13 12	11 13	21 0	18 6	14 7	...	...	...	...	...	...
40	Balasore	15 0	15 0	14 0	18 0	18 0	13 0	12 0	12 0	13 0	17 0	18 0	17 0	...	...	...	...	...	...
CHOTA NAGPORE.																					
South-West Frontier Agency.																					
41	Hazaribagh	14 0	14 0	11 8	18 0	18 0	...	9 0	9 0	8 0	16 0	16 0	15 0	...	...	...	...	...	...
42	Jahardugga	15 0	13 4	11 0	...	16 0	...	14 8	14 8	12 0	16 12	18 0	115 0	...	...	...	...	...	...
43	Singbhoom	12 0	12 0	10 0	20 0	20 0	20 0	16 0	16 0	16 0	20 0	20 0	20 0	...	...	...	...	...	...
44	Manbhoom	14 8	13 5	12 0	...	...	...	13 0	12 0	12 0	19 0	18 0	19 0	...	...	...	...	...	...

S At Fanny Hat retail price of salt 8½ seers per rupee.

T In subdivisions retail prices of salt per rupee are :—Buxar 10 seers, Samseram 10½ seers, and Bhabual 9½ seers.

U At Bhagalpore retail price of salt 10 seers per rupee.

V At Bhagalpore retail price of salt 1½ seers per rupee.

W At Bhabual retail price of salt 1½ seers per rupee.

X In subdivisions retail prices of salt per rupee are :—Bagnasore 9½ seers and Jamui 9 seers.

KANONI OR KAKUN, ITALIAN MILLET. (<i>Setaria italica</i> .)	GRAM, GHANA, CHMOLA, KADALAY OR SUNAGA. (<i>Cicer aristinum</i> .)
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Present return	Next preceding turn.	Corresponding turn of last year.	Present return	Next preceding turn.	Corresponding turn of last year.
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S. Ch. S. Ch. S. Ch. S. Ch. S. Ch. S. Ch.

...	13 0	13 0	12 0
...	12 0	12 0	12 0
...	10 0	9 2	16 0
...
...	12 0	12 0	10 0

19 8	19 0	12 0	19 8	20 0	20 0
15 0	15 0	11 0	18 0	18 12	18 0
...	...	...	20 0	22 0	19 0
...	...	9 2	19 02	22 0	19 6
...	...	...	19 0	18 0	18 0
16 0	15 0	12 0	18 4	19 6	17 12
...	...	...	21 0	22 8	17 0
14 11	16 12	...	23 1	24 2	19 11
...	...	...	22 3	22 11	17 10
...	...	...	23 0	23 0	16 0
...	...	...	20 0	24 0	18 0
...	...	...	18 0	18 0	16 0

...	...	...	14 7	14 7	19 11
...	...	...	13 2	14 6	15 12
...	...	...	14 0	14 0	14 0

...	...	...	17 0	17 0	15 0
...	...	...	14 0	14 0	11 6
...	...	...	16 0	16 0	10 0
...	...	...	17 6	17 0	14 0

SEERS OF 80 TOLAHS.

[illegible]

Station Buzars of the Districts of Bengal on the 31st August, 1890—(concluded).

												WHOLESALE PRICES PER MAUND OF 40 SEERS.			DISTRICTS	
INDIAN-CORN OR MAIZE (Zea Mays.)			ARHAR OR THUR. CADJAN PEA. (Cajanus indicus.)			FIREWOOD.			SALT.			SALT				
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.		
Eastern Districts—concluded.																
S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	S. Ch.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Chittagong.	
...	...	...	...	...	...	110	0 110	0 100	0 10	0 10	0 10	3 14	0 3 14	0 3 11		
...	...	...	8 0	8 0	8 0	...	...	...	9 0	9 0	9 0	4 0	0 4 0	0 4 0		Noakholly.
...	...	...	6 10 1	6 6 1	9 0	...	...	...	9 6 1	9 6 1	9 0	4 3	0 4 4	0 4 4		Tipperah.
...	...	...	...	...	...	320	0 320	0 320	0 8	0 8	0 8	4 8	0 4 8	0 4 12	Chittagong Hill Fracts.	
...	...	...	8 0	8 0	8 0	...	...	...	8 0	8 0	8 0	4 6	0 4 6	0 4 6	Hill Tipperah.	
BEHAR.																
20	0	30	0	20	0	23	0	21	8	140	0 12	0 130	...	10	0	Patna.
...	...	...	19	0	20	0	18	0	200	0 20	0 300	0 9	0 9	0 9	2	Gya.
...	...	...	20	0	20	0	18	0	120	0 120	0 120	0 10	0 10	0 10	0	Shahabad.
20	0	20	14	17	2	20	0	19	12	18	13	160	0 16	0 160	0 11	Darbhanga.
12	0	19	0	16	0	19	0	19	0	18	0	160	0 160	0 160	0 10	Muzafferpore.
...	...	...	17	12	19	4	20	4	19	8	190	0 120	0 160	0 10	4	Sarun.
...	...	...	15	0	21	0	21	0	17	0	160	0 160	0 160	0 10	0	Chumpanur.
22	0	24	2	21	0	17	13	19	15	17	13	168	0 147	0 126	0 10	Monghyr.
26	14	27	12	21	7	20	3	20	3	17	10	125	8 125	8 104	0 10	Bhagulpore.
...	...	...	15	0	15	0	10	0	130	0 130	0	9	8	9	8	Purneah.
...	...	...	...	...	...	160	0 120	0 140	...	9	8	9	8	9	8	Maldah.
20	0	20	0	17	8	21	0	21	0	17	0	200	0 200	0 200	0 9	Sonthal Pergas.
ORISSA.																
...	...	...	21	0	22	5	17	1	80	0 80	0 80	0 10	0 9	0 11	0	Cuttack.
...	...	...	18	2	18	2	14	7	80	0 80	0 80	0 9	13	10	0	Pouree.
...	...	...	...	...	...	160	0 160	0 160	0 10	0 10	0 10	0 3	14	0 3	14	Balasore.
CHOTA NAAGPORE.																
South-West Frontier Agency.																
21	0	22	0	19	0	21	0	21	8	16	0	240	0 240	0 240	0 8	Hasaribagl.
25	0	...	...	28	0	28	0	15	8	12	0	20	150	0 9	0	Lohardugga.
20	0	20	0	20	0	21	0	21	0	12	0	240	0 30	0 200	0 8	Siaghboom.
...	...	...	17	0	17	0	15	0	200	0 200	0 200	0 9	14	2	2	Nanbhoom.

Y In subdivisions retail prices of salt per rupee are:—Kishengunge 8 seers and Arrareah (at Ranigunge) 10 seers.

Z In Khoorda subdivision retail price of salt 8 seers per rupee.

Z1 At Bhudruck retail price of salt 8 seers per rupee.

Z2 In Palanow subdivision (at Daitongunge) retail price of salt 8-15 seers per rupee.

Z3 At Gwindaopore retail price of salt 9 seers per rupee.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, and Salt

Number.	MARKS.	WHEAT.			BARLEY.			RICE, BEST SORT.			RICE, COMMON.		
		Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
		R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.
1	Calcutta ...	2 10 9	2 11 0	2 12 0	2 1 2	2 0 7	2 3 0	4 3 6	4 1 10	4 4 9	2 12 7	2 11 4	2 12 3
2	Berajgunge ...	2 3 0	2 4 0	2 2 0	...	...	...	4 12 0	4 12 0	4 8 0	2 12 0	2 10 0	2 12 0
3	Dacca ...	3 4 0	3 4 0	3 0 0	3 0 0	3 0 0	1 8 0	3 4 0	3 4 0	3 4 0	2 13 0	2 13 0	3 0 0
4	Narsingunge ...	...	...	...	...	...	...	3 0 0	3 0 0	3 4 0	2 12 0	2 12 0	3 0 0
5	Chittagong ...	3 8 0	3 8 0	3 12 0	...	...	...	3 8 0	3 8 0	4 4 0	2 12 0	2 12 0	3 0 0
6	Patna ...	{ 2 5 6 Red. White. { 2 8 0	2 5 6	...	2 0 0	1 13 0	2 0 0	3 15 0	3 12 0	3 14 0	2 9 6	2 8 0	2 14 6
			2 8 0	2 6 0									
7	Balassore ...	2 8 0	2 8 0	2 10 0	3 0 0	3 0 0	3 0 0	3 4 0	3 4 0	3 0 0	2 5 0	2 0 0	2 4 0
8	Pooree ...	...	...	...	...	...	...	...	...	...	1 14 3	2 2 2	2 6 0
9	Cuttack ...	2 5 0	2 5 0	3 4 0	...	...	...	3 10 0	3 10 0	3 10 0	2 2 0	2 2 0	2 5 0

Calcutta,
The 9th September, 1890

PRICES PER MAUND

JOWAR OR CHOLU. (<i>Sorghum Vulgare</i> .)			BAJRA OR CUMBU. (<i>Pennisetum typhoides</i> .)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
2 1 9 1	14 8 2	6 0 3	5 0 2	15 4 3	2 0
...
...
...
...
...
2 0 0 1	12 0 2	0 0	...	...	...
...
...
...

1826a

OF 40 SEERS.

MARUA OR RAOL. (Eleusine Coracana.)			KANGNI OR KAKUM, ITALIAN MILLET. (Setaria italica.)		
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.	R.A.P.
...	4 3 04	7 82	20
...
...
...
...
...
...	18 01	16 0	2 0	02 2 03	40
...
...
...

18266

in the undermentioned *Marts* of Bengal on the 31st August, 1890.

GRAM, CHANA, CHHOLA, KADALAY OR SONAGA. (<i>Cicer Aristicum</i> .)			INDIAN-CORN OR MAIZE. (<i>Zea Mays</i> .)			ARHAR OR THUR. CAJMAN PEA. (<i>Cajanus indicus</i> .)			FIREWOOD.			SALT.			MARTS.
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	
R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	R. A. P.	
1 14 5	1 15 5	2 3 4	1 15 5	1 12 3	2 0 0	2 2 8	2 3 4	3 0 8	0 5 9	0 5 9	0 5 6	3 9 0	3 9 3	3 9 6	Calcutta.
2 4 0	2 4 0	3 0 0	...	...	...	...	...	...	...	...	...	3 11 0	3 11 0	3 14 0	Seraingunge.
3 4 0	3 4 0	2 12 0	...	...	...	3 8 0	3 8 0	2 6 0	0 6 0	0 6 0	0 4 0	4 2 0	4 2 0	3 15 0	Dacca.
3 8 0	3 8 0	2 8 0	...	...	...	3 8 0	3 8 0	3 12 0	0 8 0	0 8 0	0 10 0	3 12 0	3 12 0	3 12 0	Naraingunge.
3 0 0	3 0 0	3 4 0	...	...	...	...	...	...	0 5 4	0 5 4	0 7 0	3 14 0	3 14 0	3 11 0	Chittagong.
2 0 0	1 15 6	1 15 0	1 14 0	1 5 0	1 10 0	1 14 6	1 12	1 13 0	0 6 0	0 5 6	0 5 0	3 10 0	3 10 6	3 13 0	Patna.
2 12 0	2 12 0	2 12 0	...	...	...	...	...	...	0 4 6	0 4 6	6 4 6	3 14 0	3 14 0	3 14 0	Balasora.
...	...	...	...	...	...	...	...	...	...	...	...	3 12 0	3 10 0	3 12 0	Pooree.
2 10 0	2 10 0	2 0 0	...	...	...	1 11 0	1 10 0	2 2 0	0 8 0	0 8 0	0 8 0	4 0 0	4 6 0	3 12 0	Cuttack.

Published for general information.

P. NOLAN,
Secy. to the Govt. of Bengal.

STATEMENT SHOWING THE STOCKS OF RICE IN AND AROUND CALCUTTA.

STOCK IN HAND AS COMPILED ON—													
NAMES OF PLACES	1st week of Sept. 1890.	2nd week of Oct. 1890.	1st week of Nov. 1890.	1st week of Dec. 1890.	1st week of Jan. 1890.	1st week of Feb. 1890.	1st week of Mar. 1890.	1st week of April 1890.	1st week of May 1890.	1st week of June 1890.	1st week of July 1890.	1st week of August 1890.	1st week of Sept. 1890.
Bahadurpala	Mds. 6,02,000	Mds. 5,00,000	Mds. 4,54,000	Mds. 2,40,000	Mds. 2,00,000	Mds. 2,40,000	Mds. 9,31,100	Mds. 11,32,000	Mds. 10,94,000	Mds. 9,53,500	Mds. 7,54,000	Mds. 6,40,000	Mds. 6,41,000
Ooladanga	" 74,400	" 71,000	" 67,400	" 65,400	" 63,400	" 62,000	" 1,02,500	" 1,12,000	" 90,000	" 84,700	" 74,000	" 67,000	" 72,000
Chitnore, Gohabara, Coomer- tooly, Kalkhola, and Outp Ghat.	" 4,90,000	" 4,74,100	" 4,34,300	" 4,00,000	" 4,00,000	" 4,00,000	" 4,00,000	" 5,01,000	" 5,37,500	" 4,70,000	" 4,90,100	" 5,10,000	" 5,07,500
Pithurazhalta, Posta, and Jorabanga.	" 4,000	" 3,000	" 3,000	" 3,000	" 4,000	" 4,000	" 4,000	" 3,000	" 4,000	" 3,000	" 4,000	" 3,000	" 4,000
Tallygunge, Chittish, Kidderpore, and Moosahuzang.	" 72,000	" 64,500	" 60,000	" 60,100	" 50,700	" 50,100	" 1,31,500	" 1,50,500	" 1,32,000	" 1,19,000	" 1,04,700	" 90,000	" 94,000
51 Minor Buzare (estimated) ...	" 1,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000	" 2,40,000
Other retail shops, 2,129 in number (estimated).	" 1,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000	" 2,50,000
Boldyhabilly, Newabuzang, Hindidreem, and Chander- napore.	" 14,300	" 14,300	" 12,410	" 14,000	" 12,400	" 12,400	" 30,000	" 31,200	" 19,300	" 22,700	" 45,070	" 55,007	" 44,401
Total	18,55,400	18,55,000	17,52,210	18,12,000	18,08,070	18,45,500	22,61,000	22,77,370	21,64,000	21,05,110	19,09,570	18,05,107	18,05,401
On Railway premises on both sides of this river.	9,000 (on 3rd Sept. 1890.)	8,500 (on 3rd Oct. 1890.)	14,011 (on 3rd Nov. 1890.)	6,077 (on 3rd Dec. 1890.)	24,007 (on 3rd Jan. 1890.)	30,900 (on 3rd Feb. 1890.)	47,000 (on 3rd Mar. 1890.)	24,000 (on 3rd Apr. 1890.)	24,000 (on 3rd May 1890.)	11,927 (on 3rd June 1890.)	14,533 (on 3rd July 1890.)	2,571 (on 3rd August 1890.)	13,884 (on 3rd Sept. 1890.)
On boats un- loaded ...	23,530 (1st to 3rd Sept. 1890.)	17,500 (4th to 7th Oct. 1890.)	21,300 (1st to 3rd Nov. 1890.)	20,000 (1st to 3rd Dec. 1890.)	61,041 (1st to 3rd Jan. 1890.)	68,700 (1st to 3rd Feb. 1890.)	64,500 (1st to 3rd Mar. 1890.)	37,745 (1st to 3rd Apr. 1890.)	30,157 (1st to 3rd May 1890.)	24,745 (1st to 3rd June 1890.)	23,351 (1st to 3rd July 1890.)	24,778 (1st to 3rd August 1890.)	27,107 (1st to 3rd Sept. 1890.)
By Canal returns	19,001 (1st to 3rd Sept. 1890.)	45,000 (4th to 7th Oct. 1890.)	14,718 (1st to 3rd Nov. 1890.)	8,930 (1st to 3rd Dec. 1890.)	1,31,815 (1st to 3rd Jan. 1890.)	2,47,044 (1st to 3rd Feb. 1890.)	1,34,547 (1st to 3rd Mar. 1890.)	10,419 (1st to 3rd Apr. 1890.)	23,975 (1st to 3rd May 1890.)	25,007 (1st to 3rd June 1890.)	25,300 (1st to 3rd July 1890.)	19,540 (1st to 3rd August 1890.)	22,408 (1st to 3rd Sept. 1890.)
Grand total of Stocks ...	18,55,400	18,57,514	17,51,203	18,40,940	17,90,400	21,81,001	23,06,500	22,90,735	21,64,476	21,05,720	19,30,031	18,40,633	18,05,900
Probable stock available for exportation by sea.	9 lakhs	64 lakhs	77 lakhs	8 lakhs	60 lakhs	117 lakhs	140 lakhs	129 lakhs	14 lakhs	12 lakhs	94 lakhs	9 lakhs	94 lakhs

STATISTICAL DEPARTMENT,
The 8th September, 1890.

P. NOLAN,
Secy. to the Govt. of Bengal.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of August 1890.

	Inches.	Date.	Hour.
The mean pressure of the month	29.627		
The average pressure of August from 24 years' registers ...	29.594		
The highest pressure in the month	29.752	26th	10
The lowest pressure in the month	29.463	10th	16
The range of pressure	0.289		
Hours.			
The total number of hours of bright sunshine during the month	122.3		
The maximum possible number of hours of sunshine ...	398.4		
Inches.			
The mean temperature of the month	82.5		
The average temperature of August from 24 years' registers	83.1		
The highest temperature in the month	89.8	4th and 18th.	
The lowest temperature in the month	74.6	22nd.	
The range of temperature during the month	15.2		
The mean daily range of temperature	9.6		
The greatest range of temperature in one day	14.5	5th.	
Per cent.			
The mean humidity of the month	87		
The average humidity of August from 24 years' registers	86		
Inches.			
The mean vapour pressure of the month	0.964		
The average vapour pressure of August from 9 years' registers	1.002		
The mean cloud proportion of the month	7.41		
The average cloud proportion of August from 13 years' registers	8.09		
The total rainfall of the month	9.04		
The total rainfall indicated by a Beckley's self-registering rain-gauge (mouth of the gauge about 52 feet above the ground)	8.85		
The average fall of August from 48 years' registers ...	13.94		
The greatest fall in 24 hours	1.74	5th.	
Days.			
The number of rainy days in the month	23		
The average number of rainy days in August from 24 years' registers	25		
°			
The mean maximum equilibrium temperature of solar radiation during the month	144.3		
The mean difference of sun and air temperatures	57.5		
The greatest sun temperature	155.7	4th.	
The greatest excess of sun over air temperature	67.9	13th.	
The mean temperature of the nocturnal radiation thermometer on woollen cloth	75.7		
The mean depression of the nocturnal radiation thermometer below the minimum air temperature at 4 feet above the ground	1.8		
The greatest depression of the nocturnal radiation thermometer below the minimum air temperature	3.3	17th.	
Miles.			
The mean movement of the wind per day	67.6		
The greatest movement of the wind in one day	142.0	28th.	
The greatest movement of the wind in one hour	15.0	28th noon to 1 P.M.	
The number of hours with winds from each of the 8 points—			
N. 2, N.E. 9, E. 50, S.E. 134, S. 241, S.W. 134, W. 16, N.W. 1, Calm 157.			

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore .003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.6 higher; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, INDIA;
Calcutta, the 8th September 1890.

For Meteorological Reporter to the Govt. of India.

Meteorological Report of the Province of

METEOROLOGICAL DIVISION.	DISTRICT.	Representative stations.	STATION OBSERVATIONS.													
			AIR PRESSURE.					TEMPERATURE.					HUMIDITY.		CLOUD.	
			Highest, 8 A.M., barometer reading of month.	Lowest, 8 A.M., barometer reading of month.	Mean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean, of highest month.	Lowest of month.	Mean daily maximum temperature.	Mean daily minimum temperature.	Mean daily temperature.	Variation from normal mean.	Mean, 8 A.M., humidity.	Variation from normal mean.	Mean cloud amount, 8 A.M.	Variation from normal mean, 8 A.M.
Orissa.	Pooree	Pooree	29.756	29.575	29.672	29.684	—	80.7	74.6	88.0	79.0	84.5	86	—	7.5	—
	Gopalpore	Gopalpore	29.737	29.562	29.659	29.641	+0.42	80.2	73.9	84.6	74.5	83.1	85	—	3.1	—
	False Point	False Point	29.723	29.560	29.661	29.645	+0.23	80.5	75.1	84.3	77.5	81.9	86	—	8.0	—
Cuttack	Cuttack	Cuttack	29.685	29.517	29.609	29.601	+0.06	81.9	75.8	88.0	78.0	83.0	80	—	8.0	+0.6
	Balasore	Balasore	29.696	29.518	29.621	29.600	+0.04	80.4	74.8	87.1	77.3	83.2	87	—	3.6	—
	Sanger Island	Sanger Island	29.720	29.556	29.638	29.634	+0.00	81.2	77.0	87.5	78.5	83.5	84	—	8.0	+0.7
South-West Midnapore and South 24-Pargannas.	Midnapore	Midnapore	29.590	29.453	29.527	29.577	+0.00	80.3	75.1	88.4	77.6	83.5	83	—	2.7	—
	Calcutta	Calcutta	29.745	29.561	29.661	29.663	+0.03	80.0	75.7	86.8	77.4	83.1	88	—	7.6	—
	Burdwan	Burdwan	29.663	29.484	29.543	29.583	+0.03	80.6	77.4	89.3	79.2	84.3	86	—	8.7	+0.1
South-West Bengal.	Bankura	Bankura	29.484	29.287	29.380	29.360	+0.03	82.1	75.1	88.8	77.8	83.4	89	—	7.4	—
	West Burdwan	West Burdwan	29.414	29.223	29.318	29.300	+0.01	81.5	75.4	88.0	77.8	82.9	90	—	7.2	—
	Beerbhoom	Beerbhoom	29.414	29.223	29.318	29.300	+0.01	81.5	75.4	88.0	77.8	82.9	90	—	7.2	—
Moorshedabad	Moorshedabad	Moorshedabad	29.603	29.384	29.493	29.478	+0.10	80.8	74.3	87.3	78.4	83.9	82	+0.6	9.3	+0.1
	Nuddea	Krishnagore	29.716	29.546	29.639	29.677	+0.00	?	?	?	?	?	?	—	7.9	—
	Jessore and Khoosia	Jessore	29.751	29.580	29.665	29.680	+0.04	81.2	76.4	88.2	78.8	83.5	91	+1	9.0	—
Chittagong	Chittagong	Chittagong	29.757	29.577	29.667	29.757	+0.00	87.6	72.0	86.6	78.1	79.9	89	—	6.6	—
	Chittagong Hill Tracts	Demagri	29.761	29.583	29.672	29.699	+0.06	80.3	75.8	85.8	77.8	81.3	90	—	8.0	—
	Backergunge	Backergunge	29.763	29.584	29.673	29.742	+0.01	80.5	74.3	84.4	76.7	80.0	90	—	8.5	—
Noakhally	Noakhally	Noakhally	29.763	29.584	29.673	29.742	+0.01	80.5	74.3	84.4	76.7	80.0	90	—	8.5	—
	Furreedpore	Furreedpore	29.761	29.584	29.673	29.713	+0.00	80.5	76.9	85.4	79.4	82.4	89	—	6.0	—
	Dacca	Dacca	29.775	29.585	29.680	29.703	+0.02	80.1	75.7	86.9	77.9	82.4	90	—	9.2	+1.0
Tipperah	Tipperah	Oamillah	29.777	29.606	29.694	29.730	+0.01	80.3	73.8	86.5	76.9	81.3	89	—	5.9	—
	Mymensingh	Mymensingh	29.747	29.580	29.663	29.711	+0.01	80.3	75.1	85.7	77.6	81.0	92	—	7.9	—
	Mogra	Mogra	29.709	29.532	29.615	29.678	+0.04	81.3	74.1	87.3	77.7	82.5	90	—	7.5	—
North Bengal.	Pubna	Serejunge	29.746	29.573	29.659	29.696	+0.10	87.6	75.7	85.3	78.2	81.7	91	—	6.5	—
	Rajshahye	Rampore Beaulah	29.706	29.530	29.610	29.680	+0.00	81.3	75.6	86.2	79.0	83.6	88	—	2.8	—
	Maldah	Maldah	29.696	29.514	29.585	29.670	+0.03	81.7	76.2	88.1	78.0	83.0	86	—	5.5	—
Dinagore	Dinagore	Dinagore	29.696	29.493	29.543	29.622	+0.07	82.6	75.1	87.7	78.0	83.3	90	—	8.5	—
	Rangpore	Rangpore	29.682	29.516	29.577	29.708	+0.03	81.8	73.7	88.1	77.8	83.6	89	—	3.4	—
	Julpigore and Oooch Behar.	Julpigore	29.508	29.346	29.446	29.585	+0.01	81.4	73.1	85.6	78.6	80.6	84	—	3.6	—
Darjeeling Hill Tracts...	Darjeeling	Darjeeling	29.575	29.383	29.466	—	—	80.6	84.6	84.0	86.4	80.3	97	+4	6.6	+0.7
	Purneah and North Bhagulpore.	Purneah	29.635	29.463	29.543	29.670	+0.02	81.2	75.4	87.4	77.3	83.3	91	+5	7.9	+0.4
	Moulampur	Moulampur	29.560	29.379	29.469	29.540	—	81.3	74.3	87.1	78.8	83.0	86	—	6.3	—
Durbhanga	Durbhanga	Durbhanga	29.567	29.403	29.501	29.608	+0.01	80.0	88.4	87.4	77.3	82.3	88	+3	6.8	+0.9
	Chumpagan	Motihar	29.523	29.380	29.447	29.576	+0.01	83.2	78.8	86.1	77.7	83.9	86	—	7.4	—
	Harun	Chupra	29.515	29.379	29.449	29.544	+0.18	81.3	75.6	87.3	79.4	83.8	89	—	4.7	—
Shahabad	Shahabad	Dante	29.591	29.398	29.495	29.531	+0.17	80.5	74.0	86.6	77.7	82.2	88	—	6.9	—
		Ruzar	29.491	29.339	29.413	29.554	+0.29	80.0	75.3	86.5	77.5	81.9	91	—	8.0	—
		Arrab	29.445	29.301	29.405	29.505	+0.00	82.4	74.1	87.9	77.9	83.9	89	—	5.8	—
Gya	Gya	Gya	29.520	29.384	29.452	29.559	+0.05	82.4	73.8	87.6	78.2	83.8	87	+3	7.3	—
	Paina	Bankipore	29.506	29.384	29.449	29.553	+0.14	82.4	73.7	87.4	78.4	83.9	88	+3	9.3	+1.0
	South Bhawalpore and Moughyr.	Mhagulpore	29.503	29.380	29.443	29.540	+0.02	80.2	75.0	86.7	78.0	83.4	91	—	6.4	—
South Bengal.	South Bengal Pargannas	Naya Dooaka	29.506	29.377	29.473	29.571	+0.03	80.1	72.8	85.6	76.7	81.6	83	—	4.1	—
	Hasaribagh	Hasaribagh	27.742	27.549	27.647	27.676	+0.02	86.9	68.7	83.5	72.3	77.4	90	+4	9.7	+0.3
	Lohardugga	Manuhoon	27.723	27.545	27.645	27.673	+0.02	86.5	68.9	83.6	71.0	76.8	86	—	9.3	—
Singbhoon	Singbhoon	Chyabana	28.003	28.730	28.883	29.043	+0.10	81.4	71.7	83.1	76.0	83.1	88	—	7.3	—
		Sibangar	28.003	28.730	28.883	29.043	+0.10	81.4	71.7	83.1	76.0	83.1	88	—	7.3	—
		Amubri	28.003	28.730	28.883	29.043	+0.10	81.4	71.7	83.1	76.0	83.1	88	—	7.3	—
Assam	Assam	Assam	28.003	28.730	28.883	29.043	+0.10	81.4	71.7	83.1	76.0	83.1	88	—	7.3	—
		Assam	28.003	28.730	28.883	29.043	+0.10	81.4	71.7	83.1	76.0	83.1	88	—	7.3	—
		Assam	28.003	28.730	28.883	29.043	+0.10	81.4	71.7	83.1	76.0	83.1	88	—	7.3	—

* Mean of 25 day

+ " 20 "

- " 20 "

- " 20 "

Bengal for the month of August 1890.

DISTRICT OBSERVATIONS.											Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
RAINFALL.													
Of month.					Since 15th May 1890.								
Mean of district.	Normal mean.	Variation from mean.	Number of rainy days.	Normal mean number of rainy days.	Mean of district.	Normal mean.	Variation.	Mean number of rainy days.	Normal mean number of rainy days.				
0.00	11.88	-1.92	18.8	10.1	38.11	34.00	+4.11	59.0	51.7	Pooree Gopalpore Palse Point	Pooree	UNION.	
7.98	11.02	-3.04	10.0	18.1	35.04	34.84	+0.20	55.6	52.2	Cuttack	Cuttack	NORTH-WEST BENGAL.	
7.04	11.41	-4.37	14.6	17.7	32.13	35.00	-2.87	52.3	51.0	Balsore	Balsore		
0.72	14.31	-4.59	18.3	20.1	30.06	41.83	-11.77	60.0	58.4	Saugor Island	South-West Midnapore and south 2-Pargannas.		
5.49	13.93	-8.44	14.7	17.6	35.26	38.25	-2.99	58.3	51.0	Midnapore	Midnapore		
6.08	12.04	-5.96	10.5	2.0	37.20	37.87	-0.67	60.0	63.7	Calcutta	2-Pargannas, Howrah, and Hooghly.	EAST BENGAL.	
0.02	12.10	-12.08	10.3	18.4	44.18	31.18	+13.00	60.0	54.1	Hurdwan	Hurdwan		
4.80	14.20	-9.40	13.3	20.0	37.40	39.04	-1.64	56.6	53.3	Bankoora	Bankoora		
10.25	13.10	-2.85	18.3	20.3	45.24	38.11	+7.13	64.8	59.3	Banganga	West Hurdwan and Banbhoom.		
10.93	11.88	-0.95	17.8	18.0	42.04	35.04	+7.00	59.4	55.8	Berhampore	Moorsheadabad	NORTH-BENGAL.	
8.57	12.08	-3.51	10.0	18.2	39.16	35.20	+3.96	62.4	50.1	Krishnagore	Nuddea		
0.38	11.98	-11.60	18.8	18.8	40.28	34.46	+5.82	67.0	61.1	Jessore	Jessore and Khoulia		
26.42	22.45	-3.97	24.5	23.0	102.40	80.42	+21.98	77.0	70.5	Chittagong	Chittagong		
	17.00		24.5	24.0		58.06		70.5	77.1	Dumra	Chittagong Hill Tracts.	WEST-BENGAL.	
12.37	15.61	-3.24	23.0	24.0	84.19	56.03	+28.16	70.8	75.4	Barrisal	Bakergunge		
24.44	24.67	-0.23	24.0	24.0	74.03	80.03	-6.00	62.0	75.7	Noskhilly	Noskhilly		
10.01	12.00	-1.99	15.3	10.6	33.70	40.80	-7.10	60.3	63.0	Furcedpore	Furcedpore		
12.55	13.05	-0.50	22.3	21.3	40.40	44.40	-4.00	76.0	68.5	Dacca	Dacca	NORTH-BENGAL.	
10.75	10.97	-0.22	10.8	21.8	45.20	50.40	-5.20	69.1	69.0	Comtallah	Tipperah		
12.88	13.04	-0.16	10.4	20.2	67.20	49.05	+18.15	70.2	64.8	Mymensingh	Mymensingh		
14.06	11.03	+3.03	22.3	17.8	48.35	41.75	+6.60	70.1	50.6	Hogra	Hogra		
9.10	12.00	-2.90	24.3	17.6	30.37	3.52	+26.85	73.0	67.6	Barangunge	Barangunge	NORTH-BENGAL.	
3.00	11.08	-8.08	22.3	18.1	43.84	37.03	+6.81	69.0	54.7	Rampore Beaulah.	Rajshahy		
16.59	14.02	+2.57	23.5	20.4	41.04	35.04	+6.00	70.0	60.0	Maldah	Maldah		
16.10	11.54	+4.56	18.0	10.7	52.01	41.25	+10.76	61.2	58.1	Dumra	Dumra		
10.11	13.07	-2.96	19.0	16.4	42.00	54.70	-12.70	70.8	55.8	Bumra	Bumra	NORTH-BENGAL.	
30.43	23.45	+6.98	22.6	20.8	114.00	63.20	+50.80	80.0	72.4	Jalpaiguri	Jalpaiguri and Cooch Behar.		
31.71	26.06	+5.65	27.3	24.1	128.73	96.88	+31.85	97.1	82.5	Darjeeling	Darjeeling Hill Tracts.		
18.67	13.04	+5.63	10.8	17.9	60.35	41.00	+19.35	63.8	61.2	Purnea	Purnea and North Bhagalpore.		
12.82	10.08	+2.74	20.7	13.8	45.40	30.25	+15.15	60.0	41.0	Mouzerpore	Mouzerpore	NORTH-BENGAL.	
14.88	10.75	+4.13	20.5	15.6	49.01	31.73	+17.28	60.2	41.0	Darbhanga	Darbhanga		
18.02	11.04	+6.98	10.0	14.4	55.67	33.05	+22.62	54.0	39.5	Moulvibazar	Chumpran		
14.46	10.20	+4.26	14.7	14.7	43.04	30.01	+13.03	52.1	41.0	Chupra	Saran		
13.45	11.47	+1.98	22.4	15.6	40.75	28.00	+12.75	50.0	43.0	Behar	Behar	NORTH-BENGAL.	
20.10	11.75	+8.35	22.8	14.8	51.06	30.05	+21.01	58.0	41.0	Gya	Gya		
16.04	10.46	+5.58	20.3	14.0	39.20	30.12	+9.08	54.7	43.0	Bankipore	Patna		
12.28	11.00	+1.28	19.0	10.5	43.03	31.23	+11.80	50.4	47.5	Bhagalpore	South Bhagalpore and Moulvibazar.		
12.45	11.91	+0.54	20.7	18.4	40.87	30.14	+10.73	65.8	51.6	Naya Brooma	Sonthal Pargannas	NORTH-BENGAL.	
0.70	13.72	-13.02	18.8	20.5	32.05	30.00	+2.05	61.0	67.4	Assam	Assam		
11.27	13.01	-1.74	20.7	21.0	38.09	35.33	+2.76	60.3	60.0	Ranchi	Lohardaga		
7.00	13.20	-6.20	19.0	20.0	32.23	30.01	+2.22	60.0	64.0	Chyabasa	Singhbum		
0.48	13.63	-13.15	20.0	22.1	20.03	38.07	-18.04	61.0	64.0	Silchar	Assam	NORTH-BENGAL.	
										Assam	Assam		

Table of Rainfall recorded at Stations

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
NORTH WEST BENGAL.	Pooree	Pooree	0.21	0.04	...	0.42	1.09	0.11	0.18	2.18	0.78	0.09	0.05	0.08	...	0.75	
		Khurdah	0.01	0.30	0.28	0.71	...	0.08	0.00	0.32	0.31	0.13	0.19	...	0.20	0.35	
		Hannur	0.22	...	0.00	0.35	0.46	0.40	0.02	0.16	0.00	0.04	0.08	0.03	0.04	0.31	0.47	0.35	
		Palas Point	0.20	0.11	0.14	0.30	...	0.09	0.33	0.01	0.07	0.19	0.08	0.18	
		Salpara	0.50	0.20	...	0.80	2.15	0.48	0.48	...	0.10	0.30	
	Cuttack	Jaxtalingpore	1.40	0.80	0.15	0.60	0.53	1.50	...	0.50	0.03	0.07	...	
		Barki	0.18	...	0.55	0.75	...	0.57	0.05	0.10	0.11	...	0.06	
		Cuttack	...	0.13	0.70	0.10	0.06	...	1.35	1.24	0.4	0.00	0.0	0.74	0.50	0.10	
		Kanurapara	1.47	0.33	0.09	0.20	0.01	...	0.14	0.7	0.7	0.31	0.03	...	0.04	...	0.01	0.21	
		Jajpur	0.43	0.35	1.00	0.87	1.28	0.04	0.18	0.35	0.13	
	Balasore	Dharmasalla	0.10	0.70	0.30	0.80	0.70	0.03	1.15	...	0.25	
		Salpara	0.43	...	0.22	...	0.12	0.63	0.13	0.50	0.88	0.45	
		Chandbali	0.10	0.05	...	0.93	0.40	0.23	2.15	0.78	0.15	0.14	0.27	
		Bhadrach	1.12	0.30	...	0.81	1.43	0.11	...	0.04	...	0.14	
		Sorah	1.00	0.70	0.50	...	3.04	2.02	1.40	...	0.20	
	Midnapore	Balasore	0.03	...	0.81	1.30	1.11	1.18	0.12	0.37	1.30	0.24	0.04	0.09	
		Jajpur	0.10	...	0.43	...	0.87	...	1.50	1.50	1.50	1.50	1.10	...	0.30	...	0.10	
		Baripada	2.40	0.21	0.41	0.08	0.3	0.23	0.10	...	0.66	0.43	...	0.27	...	0.05	...	0.48	
		Contai	0.21	0.01	1.00	0.46	0.40	0.06	0.04	0.00	1.0	0.12	...	0.04	0.40	
		Saugor Island	0.00	0.03	...	0.70	0.21	0.81	0.1	...	1.01	0.07	0.07	...	0.04	0.02	...	
Diamond Harbour	Tumbook	0.00	0.10	0.14	...	0.06	...	0.30	...	0.44	...	0.51	0.17	...	0.10	0.30	...	...	...	0.15
	Chital	...	0.20	...	...	...	0.18	0.25	0.07	...	0.08	...	0.05	0.10	0.08	...	0.15	...	...	0.08
	Kakraty	0.29	...	...	...	0.17	0.14	0.1	0.83	...	...	0.01	1.01	0.85	0.07	0.10	...	...	0.11	...
	Kakraty	...	...	...	...	...	0.48	0.13	...	...	...	1.37	0.18	...	0.17	...	...	...	0.22	...
	Kakraty	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Howrah	Diamond Harbour	1.22	...	...	...	0.15	0.00	0.10	1.02	...	...	1.43	1.66	0.44	...	...	...	...	...	1.12
	Canning Town	0.33	...	...	...	...	0.00	0.70	0.20	0.03	0.31	0.43	7.32	1.60	...	0.31	...	...	...	0.16
	Alipore Jail	0.14	0.01	...	...	0.02	1.78	0.80	0.40	...	0.45	1.08	0.72	0.04	...	...	...	...	...	0.08
	Barrackpore	...	...	...	0.08	...	1.13	0.30	1.35	...	0.27	0.31	0.70	0.07	0.05	...	...	...	...	0.05
	Dum Dum	0.04	...	...	...	...	2.15	0.4	0.42	...	1.05	0.08	0.44	0.08	0.07	0.09	...	...	0.08	0.03
Hooghly	Barrackpore	0.50	0.07	...	0.82	...	1.00	0.10	0.20	0.10	...	0.78	0.72	0.4	0.14	...	...	...	...	0.10
	Hooghly	...	0.20	...	...	...	0.40	...	0.50	...	...	0.30	0.08	1.70	...	2.64	...	...	0.09	...
	Hooghly	...	0.01	...	...	0.11	1.78	0.17	0.40	...	...	0.60	1.70	1.25	0.12	0.03	...	...	0.01	...
	Hooghly	...	...	0.03	...	...	0.77	0.4	1.82	...	...	0.20	0.03	1.00	...	0.03	...	...	...	...
	Hooghly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Burdwan	Burdwan	...	0.14	...	0.08	...	0.84	...	0.90	0.09	...	0.44	0.00	0.11	0.24	0.14	...	...	...	0.48
	Burdwan	...	0.10	0.30	0.07	...	0.02	2.00	0.02	0.21	0.03	1.1	0.13	0.30	0.04	0.10	...	...	...	...
	Burdwan	...	0.1	...	...	0.70	0.80	0.15	0.04	...	...	1.18	1.1	...	0.10	0.05	...	...	...	...
	Burdwan	...	0.14	0.19	...	...	0.08	0.17	0.71	0.05	0.71	0.1	2.61	0.02	0.05	0.08	0.02	...	1.14	0.14
	Burdwan	...	0.08	0.00	...	...	0.62	0.21	0.34	0.00	...	0.46	2.23	0.44	...	0.27	0.13	...	0.10	0.20
Bansberia	Bansberia	...	0.04	...	...	...	...	0.31	0.15	0.01	...	0.67	0.31	0.01	0.04	0.01	...	...	...	0.10
	Bansberia	...	...	...	...	...	...	0.50	...	0.3	0.06	0.47	0.24	0.20	0.12	...	...	...	0.10	...
	Bansberia	...	...	...	...	...	0.15	0.11	0.13	0.02	0.06	0.05	1.03	0.06	0.07	...	...	...	0.08	0.47
	Bansberia	...	0.00	...	...	...	0.18	0.01	0.31	...	...	0.41	0.20	...	...	...	...	...	...	0.18
	Bansberia	...	0.05	...	...	0.16	...	0.18	0.01	1.14	...	...	0.07	0.00	...	...	...	...	...	0.40
Bansberia	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
Bansberia	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
Bansberia	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
Bansberia	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
Bansberia	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
Bansberia	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
	Bansberia	...	...	...	...	...	...	1.14	...	0.88	...	1.53	...	...	0.40	...	...	...	...	...
Bansberia	Bansberia	...	...	...	...	...	...	1.14	...	0.										

in Bengal in August 1890.

1	2	3	4	5	6	7	8	9	10	11	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January up to 31st August 1890.	Average rainfall from 1st January up to 31st August.	Station.	District.	Meteorological division.
0.80	3.50	0.60	...	...	0.21	0.08	1.15	1.50	...	18	18.6	13.58	10.93	3.38	40.89	33.85	Pooree	Pooree	ORTISSA.
0.05	0.05	...	0.20	0.46	0.51	0.23	0.08	0.26	...	17	21.8	8.80	12.58	0.71	47.95	40.02	Khurda.	...	...
0.81	2.02	1.48	0.09	...	0.17	0.41	0.09	...	0.41	20	18.3	11.47	12.05	2.07	37.09	31.70	Bampur.	...	...
1.44	1.90	...	...	...	0.80	...	...	...	...	22	?	?	?	?	30.75	43.11	Pala Point.	...	...
0.29	...	...	...	0.18	...	...	...	...	0.46	11	?	5.91	?	2.15	?	?	Gop.	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Salpara.	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Pipili.	...	...
1.71	1.00	...	...	...	0.83	0.42	0.10	0.03	...	14	14.1	10.05	11.31	1.71	38.36	33.14	Jagatsingpora.	...	...
0.88	...	0.20	...	...	1.30	3.09	...	0.54	...	14	22.7	11.13	10.13	3.49	46.02	47.92	Banki.	...	...
0.30	1.20	0.45	...	...	1.20	0.90	1.80	0.00	...	10	22.7	14.03	11.13	1.80	40.05	41.18	Chitack.	...	...
1.85	0.03	0.17	...	...	1.31	...	0.93	1.71	0.27	21	16.7	9.12	12.84	1.84	29.11	40.09	Kondrapara.	...	...
...	...	...	...	...	...	...	...	0.07	...	21	14.2	5.49	11.14	1.34	33.04	43.48	Jajpur.	...	...
0.50	0.55	...	...	...	...	1.15	...	...	...	11	?	8.42	?	1.15	38.04	?	Dharmala.	...	...
...	1.00	...	...	...	...	0.19	...	...	...	18	?	5.00	?	1.90	33.00	?	Salpara.	...	...
...	...	...	...	0.15	0.10	...	0.11	0.19	...	...	...	...	...	...	...	...	...	...	...
0.05	0.03	0.25	...	...	...	...	...	0.61	0.17	18	16.3	6.33	11.90	2.15	31.24	30.56	Chendbali.	...	...
...	...	0.18	...	...	...	...	...	0.40	0.08	11	10.3	5.80	11.22	1.45	30.11	42.4	Bhudduck.	...	...
...	...	...	...	...	...	...	...	0.22	0.6	10	17.3	9.20	11.45	4.04	37.70	30.53	Sorah.	...	...
1.69	0.01	0.01	...	...	0.25	0.03	0.01	0.29	...	17	16.9	7.88	12.75	1.49	34.88	40.21	Balasore.	...	...
...	0.24	0.10	...	...	...	0.12	0.10	...	...	15	15.7	8.40	11.35	2.10	37.32	41.94	J. Balasore.	...	...
...	...	1.38	0.10	0.44	0.10	0.60	0.08	0.25	...	19	20.4	9.74	12.28	2.40	38.00	41.50	Haridodah.	...	...
...	
0.29	0.60	1.04	...	...	0.09	0.28	...	0.11	...	18	16.9	6.74	14.22	1.30	33.14	47.74	Contal.	...	...
0.43	1.43	0.14	...	...	0.30	0.09	0.03	0.18	...	19	20.3	9.88	10.01	1.61	34.34	51.49	Saugor Island.	...	...
0.20	0.10	...	...	...	0.80	0.10	0.10	1.60	0.10	12	11.2	6.50	13.14	1.00	40.40	45.35	Tumlook.	...	...
0.33	...	...	...	...	...	...	...	0.34	2.04	10	10.9	3.72	12.32	2.04	30.34	40.87	Midnapore.	...	...
0.21	...	...	...	0.09	0.03	...	0.04	1.53	0.18	17	10.5	4.20	10.90	1.55	35.09	49.41	Chital.	...	...
0.14	0.09	1.57	...	0.05	...	0.38	...	0.13	0.12	8	?	3.11	13.25	1.67	21.90	?	Kukurahaty.	...	...
...	...	0.10	...	...	...	...	...	...	0.20	19	?	?	?	?	38.82	43.87	Garbeta.	...	...
0.32	2.22	0.07	...	0.30	...	0.02	0.09	0.06	0.22	18	23.1	12.53	13.00	3.23	40.40	49.95	Diamond Har.	...	...
...	
...	0.20	0.48	...	...	...	0.34	...	0.25	2.90	16	?	10.62	?	7.33	4.57	?	Canal Town.	...	...
0.10	0.11	1.07	...	...	0.06	...	...	0.15	1.05	15	34.1	10.14	14.22	1.70	42.72	40.35	Ship to Jail.	...	...
0.34	0.05	...	...	...	...	...	...	0.30	2.88	15	16.2	8.31	12.5	2.88	30.27	44.37	Harrackpore.	...	...
0.09	0.20	0.62	...	0.37	...	...	...	0.30	0.38	15	21.3	8.62	13.40	2.15	34.31	44.31	Dum-Dum.	...	...
0.71	0.20	0.10	...	...	...	...	...	0.24	2.10	17	20.8	9.47	12.5	2.10	34.22	44.7	Narsant.	...	...
0.60	0.30	0.50	...	...	...	0.08	0.37	0.19	...	15	10.1	10.78	13.23	2.68	49.40	45.92	Bussorhat.	...	...
0.33	0.25	0.43	0.03	0.37	...	0.80	...	0.07	0.43	20	24.4	9.27	13.34	1.78	30.31	47.45	Howrah.	Howrah.	...	
0.23	...	0.12	...	0.23	...	...	0.5	0.28	0.90	20	22.5	7.36	14.00	1.03	35.40	47.85	Mohoraka (Ouluberia).	...	...
0.35	0.03	...	...	0.02	...	0.10	...	0.24	0.54	18	23.0	9.41	12.98	3.54	38.10	45.03	Serampore.	...	...
0.33	...	...	...	0.03	...	...	...	0.16	0.00	13	20.5	7.52	13.00	1.80	35.24	47.60	Hoochly.	...	...
0.08	...	...	...	0.00	0.20	0.02	0.35	0.04	...	15	30.2	8.98	10.35	2.84	47.01	45.31	Jehanabad.	...	...
...	0.04	0.09	...	0.01	...	0.07	...	0.11	1.97	15	4.0	0.63	12.00	1.97	42.44	41.78	Culwa.	...	...
0.15	0.20	...	...	...	...	0.03	0.34	0.36	...	15	18.3	0.00	12.00	1.18	40.74	43.14	Burdwan.	...	...
0.05	0.03	1.20	0.08	...	0.04	...	...	0.22	0.11	23	20.4	8.74	13.91	2.01	45.32	43.95	Culwa.	...	...
0.24	...	0.41	...	...	0.10	...	...	0.06	...	15	?	7.01	?	3.25	41.42	?	Manpur.	...	...
...	0.02	0.43	0.11	...	...	0.21	...	0.83	...	15	22.2	4.23	12.38	0.87	43.97	42.71	Bankura.	...	...
...	0.45	0.78	0.00	...	...	...	...	...	...	11	10.0	3.33	14.07	0.78	38.35	40.30	Bankura.	...	...
1.85	0.2	0.72	...	...	...	...	...	0.20	...	10	18.4	7.37	10.20	1.80	4.01	43.09	Malma.	...	...
...	0.20	0.72	...	...	...	...	...	0.20	0.25	11	20.3	4.27	10.37	0.01	27.06	4.33	Kanara.	...	...
0.20	...	...	0.05	...	0.18	...	0.06	...	0.73	11	?	0.45	?	1.17	49.39	?	Bankura.	...	...
...	...	...	1.43	...	0.02	...	0.01	...	0.05	8	?	0.88	?	1.39	61.22	?	Bankura.	...	...
...	0.25	...	0.10	...	...	...	...	...	...	7	?	2.57	?	0.70	35.63	?	Bankura.	...	...
1.12	0.63	...	0.52	...	...	...	...	...	...	11	?	7.27	?	1.10	51.04	?	Bankura.	...	...
...	0.43	0.64	...	0.45	...	0.08	0.42	...	...	13	?	0.29	10.79	1.72	31.68	43.98	Bankura.	...	...
...	0.15	1.30	0.54	0.15	0.51	...	...	...	...	11	?	0.44	?	1.30	40.88	?	Bankura.	...	...
0.13	0.79	2.78	0.77	0.04	...	...	0.01	...	0.02	18	23.8	8.64	13.17	2.78	49.87	47.20	Bh. Noory.	...	...
0.90	...	0.11	...	...	...	0.20	...	...	...	14	17.5	0.65	13.15	1.10	47.08	46.73	Hemapur.	...	...
0.11	0.05	2.10	0.65	...	0.15	...	0.06	...	0.07	19	19.0	10.24	13.55	2.25	55.41	46.10	Hemapur.	...	...
0.03	0.15	1.38	...	...	...	0.20	...	...	...	20	?	8.60	?	1.90	44.51	?	Hemapur.	...	...
1.10	0.15	1.04	...	1.20	0.45	...	0.10	...	...	14	?	10.02	?	1.00	45.99	?	Hemapur.	...	...
0.32	0.20	...	...	...	0.08	...	...	1.00	1.20	18	17.0	7.03	11.00	1.28	39.89	44.00	Bankura.	...	...
0.02	...	0.20	...	0.3	...	0.01	...	0.50	0.37	20	19.6	9.11	11.20	2.18	43.36	43.73	Bankura.	...	...
0.43	0.07	0.20	...	0.15	...	0.12	...	0.08	0.05	20	17.4	8.33	12.30	1.00	3.08	40.30	Bankura.	...	...
0.10	0.07	0.14	0.36	0.06	...	...	0.20	0.25	1.07	10	17.0	8.08	12.00	1.00	34.30	41.5	Bankura.	...	...
...	...	...	...	...	...	...	...	0.04	0.00	31	19.0	8.89	11.00	1.80	41.27	40.07	Bankura.	...	...
0.02	1.70	0.12	0.01	...	0.21	0.08	1.02	3.44	...	24	20.0	11.42	13.34	2.44	50.11	50.59	Satthira.	...	...
0.35	1.64	...	0.17	...	0.05	0.10	...	1.04	...	14	17.1	8.01	13.80	1.04	49.01	44.20	Bazirhat.	...	...
0.30	0.30	...	0.40	...	0.07	...	0.06	0.78	...	17	19.7	7.27	12.24	1.80	45.15	50.44	Bankura.	...	...
5.72	0.23	0.25	...	1.65	1.40	1.10	...	...	...	14	?	15.03	?	3.70	55.02	?	Bankura.	...	...
...	...	1.02	0.01	...	...	...	...	...	...	10	?	9.01	?	2.20	45.90	?	Bankura.	...	...
0.15	0.08	0.03	...	...	...	...	0.72	...	0.16	18	18.8	8.40	10.63	4.11	46.07	44.00	Narath.	...	...
0.22	0.24	0.03	0.09	0.40	0.09	0.06	0.02	1.20	0.30	24	22.8	12.33	11.10	4.02	51.33	51.63	Bankura.	...	...
0.15	0.01	...	...	0.40	...	...	...	...	...	18	18.0	8.64	12.55	3.41	40.01	45.01	Bankura.	...	...
0.07	0.03	0.07	...	0.21	1.09	0.50	0.10	0.70	0.05	22	18.0	11.22	10.07	2.73	42.72	47.5	Bankura.	...	...
0.10	1.00	...	...	...	...	1.40	...	...	0.60	13	18.0	0.89	12.07	1.80	34.37	45.39	Bankura.	...	...
0.09	0.33	1.80	...	0.22	...	...	...	...	...	16	18.1	13.27	11.78	3.12	49.81	42.03	Kandi.	...	...
0.11	1.07	1.70	0.14	...	0.07	...	0.31	...	0.32	19	19.3	11.29	10.91	2.65	45.01	40.1	Hornampur.	...	...
0.07	0.05	1.04	0.03	0.15	...	0.18	...	0.10	0.38	10	18.4	10.30	12.71	3.21	47.08	40.35	Bankura.	...	...

Table of Rainfall recorded at Stations

Met. division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
BANK POONAH - conold.	Buckingham	Patankhally ...	0.77					0.15	1.05	0.19	0.21	0.75	0.04	0.45	0.60		0.25	0.70				0.37	
		Indrapore ...	1.40			0.18		0.35	0.25	0.40	0.20	0.08	0.17	1.77	0.31	0.29	0.28				0.35		
		Burmal ...	0.30	0.20				0.25	0.40	0.73	0.33	0.17	0.10	0.47	1.08	0.27	0.30				0.27	0.10	
		Uthala ...	0.22	0.05	0.00			1.15	0.04	0.07	0.70	0.12	0.40	0.30	1.10	0.22		0.50	0.03		2.02	0.10	
		Gourmaddi ...						0.38	0.32	0.07	0.08	0.22	0.48	1.45	0.08	0.18	0.07				0.45	0.21	
	Noakhally	Rauphal ...	0.88	0.02				0.13	0.11	0.94	0.02	0.19	0.31	0.73	2.00	0.20		0.33	0.31	0.11		0.04	0.01
		Noakhally ...	0.22	0.05	0.10	0.03		0.05	0.20	0.10	0.01	0.70	0.27	0.04	2.55	0.03		0.22	2.32	0.34	0.12	0.30	
		Fenny ...	0.40					3.45		0.28	1.00	0.15	0.37	0.40			1.00	3.30	1.00	0.20	0.10	0.30	
	Furroadpore	Harishpore ...	0.20					1.15		2.10	1.00	0.75	1.80	4.00	2.14	0.20	1.40	2.10	0.90	0.80	0.80	1.75	
		Ramganj ...						0.60	0.10		0.40		0.10	1.30	0.70			1.15	0.03		1.60	0.30	
	Dacca	Furroadpore ...						0.17	0.40	0.37				0.41	0.27	0.08	0.23	0.02			0.22	1.45	
		Goswami ...	0.32					0.04	0.03	0.31	0.20			0.02	0.03	0.13		0.26			0.28		
	Mymensingh	Mundhikungo ...	0.17	0.12				2.70	0.45	0.15	0.42			0.04	0.21		0.10		0.20		0.44	1.08	
		Dacca ...	0.37	0.12				2.35	0.50	1.35	0.16	0.70	0.19	0.40	0.04	0.02		0.02		0.07	0.11	1.34	
		Narailkanga ...	0.40	0.12				3.53	0.03	0.44	0.85		0.71	0.27		0.14	0.32		0.10	0.10	1.17	0.20	
		Munickungo ...	0.10	0.07				0.54	0.00	0.05		0.57	0.14	1.04	0.05	0.10	0.02	0.10	0.10		0.07	0.41	
	Hill Tipperah	Joydebpore ...	0.02	0.00				1.11	1.22	0.28	0.43	0.17	0.41	0.30	0.10		0.21	0.55	0.10	0.07	0.10	0.31	
		Agartala ...		0.10				0.60	0.08	1.00		0.30		0.45		0.28	0.30	0.85	0.17		0.30	0.10	
	Tipperah	Gomila ...	0.00	0.03	0.58	0.04	0.20	1.65	0.15	0.03	0.02			0.43			0.30	1.04	1.10		0.24	0.18	
		Chandpara ...	1.10					0.80	2.40	0.80							1.40	0.20				2.10	
		Brahmanbaria ...	0.03					0.20	0.18	0.08	0.20			0.04	0.10	0.10		1.30		0.03			
		Ranchandra- pore	0.04	1.42	0.00	0.05	1.02	1.01		0.10	0.12			0.70	0.10		0.44	1.02	0.74		0.40	0.58	
		Narainagar					Nil	0.50	0.40					0.20	0.12			0.75				0.40	
	Mymensingh	Bandkandi ...	0.75					0.42	0.34	0.30				0.20	0.12			0.34	0.10			0.10	
		Kutub ...	0.27					0.02						0.25			0.34	0.10					
		Lakham ...	0.80			0.73											0.15	0.25	1.20				
NORTH BENGAL	Pabna	Kishoreganj ...	0.47					0.21	0.12	0.20	0.05	2.04					1.31	1.45		0.27	0.25	0.44	
		Ata (Tangail)	0.55					0.54	0.12					0.48	0.35		0.42			0.23			
		Mymensingh ...	0.56	0.73				0.08	0.70	0.03	0.04	0.22	0.07	0.32	0.04	0.08	0.08	0.28	0.04		1.34	0.08	
		Jamshil ...	1.01	0.05				0.14	0.16	0.34	0.20			0.09			0.34		1.35				
		Netrokona ...	0.14	2.40	0.32			2.50	0.12	1.10	0.12			0.12	0.03	0.10	2.78	1.01	0.00	0.40	0.40		
	Mymensingh	Narainkhal ...	0.40															0.40		0.05			
		Barisal ...	0.20	2.10				0.70		2.60								1.05	2.05	0.80	0.37	0.80	
		Shariatpur ...	0.54	0.00				0.81		0.30	0.11						0.22	0.22	1.12				
		Dumragang ...	0.32					0.25	0.25								0.68	0.41			0.80		
	Rajshahi	Pabna ...	0.45	0.12				0.00	0.12	0.52	0.23	0.02	0.27	0.78	0.08		0.00		0.25		0.01	0.80	
		Satgaon ...	0.50					0.23	0.24	0.08	0.22	0.43	0.25	0.04	0.00		0.12		0.00	0.03	0.14	1.30	
		Sherpore ...	0.07	0.25				0.05	0.07	0.37	0.40			0.11			0.78	0.00		0.05	0.45	0.43	
		Nowkhilla ...	0.05	0.02				0.07	0.07	0.84			0.15	0.15	0.14		0.34	1.20	0.14		0.23	0.40	
	Rajshahi	Rogra ...	1.22	0.18	0.03	1.03	0.19	0.03	0.10	0.50	0.30	0.04	0.45	0.08	0.03		0.12	0.03	1.12	0.02	0.09	1.12	
		Panchbibi ...	2.40	2.12	0.32			0.10					0.01	0.30					1.00			1.45	
		Beaulah ...	0.05	0.15	0.30			1.26	0.13	0.12	0.10	0.02	0.18	0.32	0.08	0.01			0.01	0.11	0.85	0.50	
		Nailore ...	0.02	0.07				0.20	0.40	0.05	0.13	0.08	0.47	0.45	0.05			0.23		0.48	0.15	1.75	
	Maldah	Naogona ...	0.08	0.09				0.30	0.08	0.03			0.50	0.25	0.15				0.28		0.42	0.22	
		Lalpara ...	0.05					0.33		0.30	0.14	1.42	0.12	0.11	0.30			0.15				0.31	
		Manda ...	0.20	0.05				0.80	0.10	0.10				0.40	0.10			0.50				0.33	
		Maldah ...	1.20	0.47	0.32			0.35	1.15	0.01	0.11	0.04	0.02	0.02	0.10	0.04	0.01	0.35	3.00	0.22	0.37	0.77	
	Dinagore	Chauchal ...	1.28	2.30	0.39			0.45	0.00	0.04			0.20	0.05	0.10		0.30	1.70	0.13	1.33	0.05	0.60	
		Gajol ...	1.70	0.01	0.47			0.40	0.20		0.15			0.05	0.05			0.08	3.25		1.00	0.00	
		Sibganj ...	1.07	0.61	0.19			0.07	0.41		0.07	0.30	0.05	0.60	0.07	0.06		0.72	0.10	0.11	0.31		
		Mohadepore ...	0.57						0.32			0.03	0.20	0.25	0.12			0.30			0.14	0.12	
	Rangpore	Churamon ...	1.60	1.70	0.83				0.54	0.03					0.30		0.27		1.70	0.00	2.10	0.12	
		Rangpore ...	2.00	4.00	1.07				0.45	0.12	0.55				0.07		0.51	0.44	2.00	0.80	4.25	0.71	
		Dinagore ...	0.04	0.20	0.04	0.45					3.38			0.07	0.07		0.11		3.04	0.00	1.52	0.14	
		Thakurgaon ...	1.45	1.00	0.42				0.81	0.02				0.74	0.10	0.07		0.00		2.02		0.34	0.34
	Rangpore	Thakurgaon ...	0.45	4.00	1.03				0.43					0.80				1.10	0.81	1.00	1.19		
		Bhawaniganj ...	2.32	1.61					0.34	0.42					0.10			0.10	0.50		0.15	0.14	
		(Gyabanda)																					
		Rangpore ...	0.45	0.73	0.17	1.03											0.02		2.78	0.19	1.32	1.33	
	Jalpaiguri	Kurigram ...	1.08	1.10	0.20	0.00								0.15		0.03		0.45	1.35	0.43	2.25	0.01	
		Rangpore ...	1.16	0.47	1.07			0.00						0.07			0.04		1.51	3.15	3.00	1.40	
		(Niphumari)																					
		Ulipore ...	5.60	1.50	1.42														3.12		3.21		
	Cooch Behar	Jalpaiguri ...	0.00	2.61	0.30	0.25			0.13			0.45		0.47				1.52	2.35	3.00	1.45	0.50	
		Alipore Dagr ...	0.00	0.02	0.05	0.07		0.07	1.18	0.27				0.12			0.03	1.00	2.10	1.01	3.43		
		Palacotta ...	0.30	0.21	0.18					0.21				0.11				0.05	0.06	1.10	2.42	0.43	
		Debaganj ...	0.28	3.83					0.30	0.10							0.32	1.30	2.34	1.94	3.31	0.71	
	Darjeeling Hill	Bhagatpore ...	0.60	0.23	0.03	0.10			0.57	0.03	0.08		1.70	0.10			1.00	2.89	3.53	0.93	1.43	0.05	
		(Nagrakutta)		</																			

in Bengal in August 1890—continued.

21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Highest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st August 1890.	Average rainfall from 1st January up to 31st August.	District.	Station.	Meteorological division.
0.77	3.80	1.00	0.80	0.85	0.25	...	0.25	0.75	1.28	...	21	22.8	15.96	17.08	3.50	65.87	76.94	Patnakhally	Meckeringunge.	East Bengal—
0.33	0.29	0.32	0.44	0.18	0.23	...	0.16	0.29	0.11	0.81	23	21.0	8.45	15.18	1.77	53.43	60.40	Porosopore.		concid.
0.29	1.18	0.39	0.42	0.60	...	...	0.18	0.11	...	...	21	25.1	8.52	13.10	1.18	57.74	61.72	Burrisal.		
0.94	1.86	1.29	0.90	0.93	0.39	0.11	0.17	0.44	1.22	0.03	27	25.6	18.55	19.09	3.03	62.31	72.06	Bhola.		
0.20	0.30	...	0.70	0.20	...	...	0.23	0.75	0.74	...	19	?	0.40	?	0.75	42.07	?	Churneddi.		
0.84	1.64	1.50	0.71	0.15	0.17	...	0.28	1.87	...	...	17	?	?	?	2.00	?	?	Baughal.		
0.94	1.80	2.11	0.06	0.39	3.88	0.17	0.13	0.45	0.30	0.36	20	24.7	20.34	23.22	2.85	82.01	86.26	Noakholly	Noakholly.	
0.70	4.05	2.08	0.16	0.03	...	...	1.72	0.29	0.92	0.73	23	24.5	28.54	24.39	5.85	97.03	93.70	Penny.		
0.90	5.90	1.90	2.80	...	...	...	4.90	3.50	...	...	17	?	11.88	?	5.80	?	?	Harishpore.		
0.03	1.58	0.65	0.10	...	...	0.20	...	0.30	0.10	...	17	?	?	?	1.88	65.48	?	Ramganj.		
0.05	0.11	...	...	1.50	0.45	...	...	3.60	0.21	...	18	19.1	7.62	12.20	3.60	41.04	54.73	Madaripore	Farredpore.	
2.83	0.03	0.65	...	0.03	...	0.34	1.45	2.74	...	0.13	19	20.3	14.47	12.21	2.85	47.59	54.64	Farredpore.		
0.81	1.92	...	0.24	...	...	0.15	...	0.08	3.45	...	15	18.1	8.04	11.54	3.45	63.10	49.81	Goalundo.		
1.11	0.93	0.10	...	...	0.45	0.23	...	3.05	0.24	0.23	20	20.2	12.00	14.73	2.70	59.57	66.71	Munshigunge.	Dacca.	
0.61	0.04	0.28	...	10.17	0.10	...	0.04	1.72	0.16	0.14	24	21.4	11.90	12.39	2.33	63.17	57.13	Dacca.		
1.15	0.21	0.16	...	0.06	1.93	0.11	...	2.32	0.13	...	20	23.0	14.43	12.47	2.59	65.45	60.01	Narsingunge.		
1.84	1.48	0.04	0.03	0.09	0.09	...	0.29	1.74	2.41	0.04	24	20.5	12.44	11.71	2.41	63.49	48.45	Manickgunge.		
0.14	0.10	0.26	0.12	0.26	1.30	0.75	1.43	2.46	0.35	0.18	27	?	14.10	?	2.46	64.90	?	Joydebpore.		
0.67	0.13	0.30	0.16	...	0.15	0.23	...	0.57	0.47	0.25	21	19.9	7.91	13.71	1.03	63.93	62.70	Agartola	Hill Tipperah.	
0.70	0.81	0.75	0.16	0.33	0.90	0.23	0.20	1.60	0.33	0.64	20	24.1	12.73	16.77	1.65	61.85	74.47	Onmilla	Tipperah.	
0.20	1.53	0.20	...	0.23	...	...	...	0.42	1.18	...	13	22.5	12.74	19.52	2.40	57.64	69.05	Chandpore.		
0.20	0.30	0.18	...	...	0.14	...	...	1.76	0.85	2.80	19	20.0	9.61	12.06	2.80	58.73	63.40	Braunmunharis.		
1.20	0.53	...	...	0.47	0.22	0.16	0.16	0.32	...	...	?	?	?	?	1.91	?	?	Ramchandrapore.		
...	...	...	...	...	0.50	...	...	0.00	0.53	1.60	8	?	5.15	?	1.60	80.76	?	Nasirnagar.		
0.20	0.04	...	...	...	...	0.40	...	0.22	0.40	...	10	?	4.30	?	0.75	27.75	?	Daudkandi.		
1.57	1.95	...	...	2.60	...	...	...	0.27	0.50	0.20	12	?	2.18	?	0.50	59.70	?	Kasba.		
...	...	...	...	...	...	...	...	1.65	...	...	10	?	12.80	?	2.60	73.75	?	Laksham.		
0.37	0.21	...	0.17	0.53	...	...	0.47	0.90	4.35	...	19	19.8	11.85	13.12	4.35	67.62	65.20	Kishoregunge.	Mymensingh.	
0.27	0.97	...	0.51	...	...	...	...	2.85	1.21	...	12	16.7	8.19	11.04	2.85	53.16	49.32	Am (Tangail).		
0.22	1.76	0.71	0.14	0.47	0.31	0.32	0.72	0.97	0.21	0.83	27	22.0	12.80	14.54	1.74	72.83	72.49	Mymensingh.		
1.39	...	...	0.45	0.47	...	...	...	0.53	1.31	0.29	15	19.5	10.21	13.71	1.94	68.11	56.76	Jamulpore.		
0.25	0.10	...	0.49	0.88	1.03	...	1.39	1.43	1.20	...	24	22.4	18.27	10.07	2.79	84.88	74.23	Netrokona.		
...	1.02	...	0.20	...	0.30	...	...	0.50	0.37	0.72	10	?	5.32	?	1.02	?	?	Subornakhally.		
1.10	0.18	0.80	0.60	0.60	...	2.90	0.58	1.20	1.35	1.00	31	?	26.01	?	4.45	104.97	?	Durgapore.		
0.30	0.41	0.86	0.09	...	...	0.05	...	0.31	0.09	0.31	10	?	7.38	?	1.12	40.13	?	Shorepore Town.		
0.15	0.84	1.45	...	...	...	1.55	0.90	0.75	...	...	12	?	0.43	?	2.15	60.88	?	Dewanganj.		
0.16	0.25	0.19	0.03	0.59	0.06	0.07	...	0.63	0.63	0.42	14	20.4	9.48	12.07	0.89	57.83	45.13	Pubna	Pubna	North Bengal.
0.07	0.43	0.28	0.50	0.20	0.07	0.13	0.27	0.00	0.92	0.63	25	14.7	8.73	11.22	1.55	51.14	40.07	Serajgunge.		
0.81	0.61	1.27	0.35	...	0.57	...	0.21	0.72	2.05	2.75	22	16.5	14.72	12.89	2.75	53.60	49.45	Sherpore	Bogra.	
0.27	0.53	0.26	...	...	0.20	...	...	1.45	0.13	1.70	20	19.9	11.00	10.80	1.70	55.74	47.11	Nowkhilla.		
1.12	0.01	2.26	0.00	0.72	0.30	0.05	0.14	0.15	2.18	1.83	30	20.1	17.03	13.26	2.26	64.29	57.53	Boara.		
0.22	0.21	0.23	0.07	0.77	...	0.17	...	0.11	0.28	0.68	17	14.0	12.79	11.43	2.40	57.91	45.83	Penchibibi.		
0.44	0.31	0.15	0.38	0.11	0.12	0.00	0.07	...	0.07	0.03	26	20.0	6.91	10.74	1.25	53.79	42.47	Beaulvah	Rajshahye.	
...	1.25	0.31	...	0.50	0.32	0.02	0.05	0.14	0.20	...	22	17.3	10.15	12.32	2.02	55.20	45.39	Nattore.		
0.15	0.34	0.33	...	0.00	...	...	...	0.35	0.45	1.12	19	16.9	6.90	8.75	1.12	48.45	42.61	Nangan.		
0.10	0.44	...	0.70	...	...	0.17	2.00	0.15	0.34	...	17	?	7.57	?	2.00	38.48	?	Lalpor.		
...	0.90	0.10	0.30	...	...	...	...	0.60	...	...	14	?	5.59	?	0.90	30.81	?	Manda.		
0.13	2.43	0.06	0.92	0.08	0.27	...	...	3.17	0.64	...	25	18.8	18.44	10.27	3.17	45.56	38.18	Maldah	Maldah.	
0.81	1.35	0.90	0.38	...	0.45	...	...	0.80	0.55	...	22	21.9	14.55	13.73	2.93	47.00	43.08	Chandahal.		
0.80	1.33	3.17	0.10	0.14	...	...	...	2.17	0.28	...	18	?	23.39	?	0.30	57.74	?	Gajul.		
0.09	0.30	0.65	0.60	0.04	0.07	...	...	0.05	0.00	0.05	24	?	7.61	?	1.07	43.63	?	Sibganj.		
...	0.81	0.10	0.28	0.40	...	...	0.25	0.25	...	1.25	16	18.6	7.50	12.65	1.03	45.24	45.27	Mohadehpore.	Dinagore.	
...	1.12	0.72	0.08	...	...	...	...	1.81	...	0.84	18	19.0	10.93	11.18	2.99	57.26	42.65	Churamon.		
...	1.02	0.46	1.04	0.72	...	0.39	...	0.05	1.55	0.31	20	19.5	24.35	12.65	4.90	65.66	49.18	Bakunge.		
...	0.10	0.14	3.80	0.08	...	0.23	...	0.84	1.11	0.60	20	20.0	18.05	14.21	4.20	60.23	50.88	Dinagore.		
...	2.27	0.36	0.37	1.28	...	...	...	0.72	0.09	...	18	20.4	18.75	9.03	2.32	51.74	41.87	Baloarchat.		
...	1.89	2.64	2.50	0.48	...	...	1.84	0.45	1.04	0.63	17	?	21.23	?	4.00	80.63	?	Thakurgaon.		
0.00	0.22	3.00	1.55	...	...	1.00	0.60	0.75	...	...	15	14.0	16.90	10.20	3.00	73.94	52.04	Bhawanikunge	Rungpore.	
...	...	1.44	0.06	1.23	0.06	0.10	0.01	0.18	0.80	0.64	19	18.3	11.07	13.00	2.58	62.63	65.12	(Dyabanda).		
...	0.16	1.00	0.14	0.12	...	0.01	0.30	1.39	0.37	...	20	18.5	11.43	10.40	2.23	68.47	60.36	Rungpore.		
...	0.08	0.08	2.11	0.09	0.11	0.08	0.06	2.15	1.13	...	20	19.1	21.07	15.17	3.50	79.10	71.08	Kuriganj.		
...	0.26	...	...	2.10	...	...	...	0.36	3.03	0.23	11.7	?	18.94	?	3.12	70.61	?	Bagdogra.		
...	3.83	5.30	1.40	1.62	0.31	...	...	1.93	0.36	1.46	23	21.4	31.07	25.91	5.20	127.24	99.26	(Nipnamari.)		
...	0.99	4.00	1.12	2.60	0.65	...	...	2.45	4.20	0.79	24	?	40.07	?	5.00	153.34	?	Ulipore.		
...	0.92	1.02	1.83	0.61	...	...	...	1.65	2.44	0.35	20	?	20.12	?	2.52	1.6.69	?	Alipore Doar.	Julpigore.	
...	2.03	2.35	0.77	...	...	1.25	1.42	2.18	1.53	0.20	19	?	20.62	?	3.43	88.44	?	Palanotta.		
...	0.63	0.40	0.45	4.03	...	2.70	2.19	2.04	1.72	2.99	26	?	37.05	?	4.93	140.71	?	Debiganj.		
...	0.16	0.79	0.37	0.10	0.07	...	0.12	0.80	2.30	0.24	23	20.5	24.73	15.70	4.41	97.05	84.66	Bhogotpore		
...	2.10	0.44	0.42	3.30	0.07	1.18	3.09	2.75	0.74	4.50	24	21.0	45.36	21.00	4.50	140.54	102.09	(Nayrakatta.)		
...	0.28	2.13	0.25	1.77	0.11	1.13	3.54	4.22	2.60	1.13	23	20.7	37.46	22.42	4.22	125.73	90.31	Dumhatia		
...	1.12	1.70	1.27	0.66	0.22	2.14	3.37	6.85	1.83	0.94	31	21.5	44.35	22.35	6.85	145.27	96.13	Cooh Behar.		
...	2.41	0.35	1																	

Table of Rainfall recorded at Stations in

Meteorological division.	District.	Station.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
NORTH BHAR —concl.	Darbhanga ...	Talpoore ...	0.04	0.50	0.04	0.12	2.37	...	0.25	...	0.04	...	...	...	0.10	...	...	0.02	0.35	...	0.05	0.11
		Darbhanga ...	...	1.30	0.20	0.18	2.18	...	0.24	...	...	...	0.03	...	0.04	...	...	0.03	...	0.20	0.14	0.07
		Madhubani ...	...	0.22	0.33	0.64	0.74	...	1.36	...	0.24	...	...	...	...	...	0.10	0.06	...	1.07	0.84	0.07
		Rohara ...	...	0.21	...	0.17	0.19	...	0.43	...	...	...	...	...	...	...	...	...	0.50	0.2	...	0.07
		Rohara ...	1.63	0.10	...	0.73	...	0.70	...	...	...	...	...	...	...	...	...	0.07	...	0.48	...	0.53
	Muzaffarpore ...	Bitamarhi ...	0.02	0.40	0.41	0.36	1.04	0.07	0.03	...	0.40	0.10	0.72	1.00	0.41	1.7
		Muzaffarpore	2.08	0.67	0.07	0.73	...	1.43	0.07	0.33	...	0.08	0.15	0.18	0.30	...	0.42	0.08	0.07
		Hajimore ...	0.63	0.70	0.74	...	0.37	...	0.67	0.37	0.19	0.09	0.50	...	0.12	...	1.7
		Para	1.54	0.56	...	2.80	...	1.54	0.40	3.21	0.60	1.7
		Mahua ...	1.44	...	0.80	0.34	0.44	...	0.15	0.13	0.80	0.55	...	0.60	...
	Champaran ...	Suhar	0.60	0.80	0.55	...	0.60	...
		Pupri ...	0.19	0.50	0.80	0.30	0.30	0.16	...	0.63	...	1.7
		Motihari	0.95	0.11	0.16	0.24	0.56	0.26	1.29	1.47	0.63	0.07
		Hettiah	2.08	1.10	0.34	0.08	0.19	0.26	1.29	1.70	...	0.07
		Bagaha ...	0.03	0.16	0.55	1.12	0.41	...	0.01	0.04	0.31	0.01	1.95	2.82	...	0.07
Sarun ...	Burhura ...	0.03	1.84	0.01	0.57	0.12	...	...	...	...	0.02	...	...	...	...	...	...	...	0.25	0.67	2.70	0.07
	Gopalpur ...	0.04	3.87	1.26	3.25	...	...	...	...	...	...	...	...	...	...	...	...	...	0.30	0.45	...	...
	Sowan ...	1.45	0.60	2.13	1.04	0.34	...	0.02	0.48	0.03	...	...	...	...	...	...	...	1.83	1.73	...	0.18	...
	Chupra ...	0.37	0.27	0.10	0.55	...	1.50	...	...	...	...	0.17	0.02	...	...	...	...	0.03	1.42	...	0.40	...
	
SOUTH BHAR	Shahabad ...	Huzar ...	0.05	0.70	2.36	0.14	0.69	...	0.02	...	0.14	0.56	0.05	2.01	0.14	0.11	...	...	0.45	0.37	...	0.07
		Dehroo ...	0.10	0.05	0.33	0.03	...	0.10	...	...	0.53	0.23	...	2.60	0.60	...	...	...	1.75	1.30	...	...
		Hibubooah ...	0.04	0.05	0.1	0.28	...	0.25	...	0.06	0.02	0.48	...	2.60	0.60	...	...	...	0.01	0.18	0.03	0.07
		Samsaram ...	0.11	0.05	0.46	0.05	0.06	0.08	...	0.04	0.03	0.12	...	0.02	2.32	0.58	...	...	0.09	0.01	0.06	0.07
		Arach ...	1.13	1.75	0.65	1.02	0.80	...	0.60	0.03	0.18	...	0.02	1.05	0.72	0.16	0.24	...	1.40	0.38	0.14	0.07	
	Gya ...	Mohaniah ...	0.03	0.50	0.10	2.18	0.20	0.10	...	1.20	...
		Aurangabad ...	...	0.08	0.13	...	...	1.25	...	0.41	2.55	0.35	0.31	0.80	5.43	0.29	...	...	2.38	1.82	1.03	0.07
		Gya ...	0.78	0.15	0.64	...	0.07	0.02	...	0.03	0.01	0.31	0.08	0.43	...	...	0.06	3.38	1.88	0.46	...	...
		Nowadah ...	0.37	0.23	...	0.04	...	0.21	0.45	0.08	...	0.05	0.10	0.57	0.27	...	0.07	2.05	2.04	0.20	...	...
		Johannabad ...	0.73	0.08	1.31	...	0.08	...	0.18	...	0.08	0.16	2.30	0.35	0.07	0.02	0.20	1.05	1.33	0.05	0.07
	Patna ...	Arwal ...	0.50	3.20	0.20	2.10	...	0.30	...	...	0.70	0.10	1.50	1.50	...	...	...	...	...	...	...	...
		Daudnagar ...	1.00	...	...	...	...	0.10	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Sheerghati ...	1.00	...	2.20	...	...	...	...	...	...	0.50	0.93	...	...	...	...	...	1.00	0.40	...	...
		Kajauli ...	0.40	...	0.45	...	2.05	1.00	...	0.15	...	...	0.35	2.50	0.42	...	...	...	0.30	2.4	...	...
		Pakri Saran ...	0.40	2.05	...	0.20	1.90	0.20	1.20	1.20
	Monghyr ...	Patna ...	...	2.18	0.36	...	0.35	...	0.30	...	...	...	0.15	0.30	0.11	0.22	...	...	1.07	0.12	...	...
		Dinapore ...	0.07	0.00	0.40	0.30	...	0.60	0.40	...	...	...	0.40	0.08	0.37	...	...	...	0.20	0.05	...	...
		Behar ...	0.12	1.08	0.18	...	...	0.03	1.50	0.08	0.08	0.15	0.17	0.28	0.11	0.20	0.40	...	0.25	...	0.05	...
		Barrha ...	0.42	1.24	0.50	...	...	...	0.20	0.50	0.60	...	0.10	...	...	...	...	...	0.40	...	0.10	...
		Bickram ...	0.40	0.85	1.07	0.02	2.57	...	0.25	...	...	...	0.57	0.25	0.27	0.25	...	...	0.33	1.03	0.12	...
	Monghyr ...	Hilso ...	0.45	0.30	0.19	0.03	1.30	0.05	0.75	0.16	0.15	...	0.23	...	1.10	...	0.12	...
		Hogonsrai ...	1.40	0.23	0.12	...	0.26	...	0.26	...	0.07	...	0.09	0.57	1.19	...	1.00	...
		Monghyr ...	1.85	0.64	0.11	...	...	...	...	...	0.05	...	0.02	0.21	...	...	...	...	0.70	0.25	1.85	...
		Jamui ...	0.13	0.11	0.50	...	0.13	...	0.23	...	0.08	...	1.00	0.44	0.09	0.16	...	...	2.06	1.23	...	...
		Gogri ...	2.25	4.42	1.32	0.40	1.20	0.47	2.62	...
	South Bhagal- pore.	Sheikpura ...	3.10	1.30	0.40	...	1.40	...	0.30	...	0.37	...	1.50	0.63	0.38	0.32	...	...	0.30	...	1.00	...
		Bhagulpore ...	3.40	2.10	1.05	0.03	0.06	...	0.05	...	0.07	0.30	0.06	0.17	1.20	0.45	2.10	...
		Banka ...	1.01	0.44	0.40	...	...	0.07	0.47	0.08	0.31	...	0.09	0.40	0.15	0.20	...	...	0.10	1.00	0.03	0.37
		Kolpore ...	0.72	1.82	0.40	...	...	...	0.08	0.10	0.08	...	0.15	0.05	0.11	...	...	...	0.50	0.61	0.20	1.75
		Bongon	4.45
	Sonthal Per- gunnahs.	Bongon
		Rajmehal ...	3.48	0.38	0.37	0.41	0.11	0.15	0.23	...	0.11	1.05	...	0.34	...
		Godda ...	1.50	0.58	0.25	0.30	0.10	...	0.12	0.45	0.40	0.06	0.10	2.50	...	0.35
		Pakour ...	0.08	0.05	0.02	...	...	2.51	0.16	0.12	0.03	...	...	0.57	0.73	0.20	...	...	0.22	1.32	...	0.35
		Nya Doonka ...	1.00	4.88	0.00	...	0.11	0.74	0.10	0.03	0.10	...	0.73	2.20	0.08	0.13	...	1.40	3.08	...	1.02	...	
	Masaribach ...	Deoghur ...	1.00	0.05	0.00	0.02	0.34	0.14	0.03	0.07	0.25	0.11	0.04	1.02	...	0.13	...
		Jamtara ...	0.22	0.00	0.08	...	...	0.45	0.27	0.24	0.46	0.13	0.00	2.75	0.33	...	0.27	...	0.09	...	0.97	...
		Mohagoma ...	2.15	0.35	...	0.05	0.49	...	...	0.15	...	...	0.25	0.11	0.15	0.19	...	...	2.15	0.15	1.38	1.05
		Nasihat ...	0.01	1.53	0.16	0.35	0.20	1.05
	
SOUTH BHAR —concl.	Masaribach ...	Yachamba ...	0.20	...	0.15	...	...	0.23	0.15	1.63	0.13	...	0.37	1.25	2.10	0.20	...	...	0.03	...	...	...
		(Giridi)
		Masaribach ...	0.05	...	0.51	...	1.10	0.17	0.03	0.05	0.05	0.06	1.11	0.32	0.33	0.05	...	...	0.21	0.50	0.72	...
		Santagurh ...	...	0.18	...	...	0.31	...	...	0.03	0.18	0.40	0.16	...	...	...	...	...	1.07	0.13	0.80	0.51
		Mahuli Hills ...	0.05	...	...	...	0.20	...	...	0.13	...	0.54	1.02	0.02	0.27	...	...	...	0.60	0.67	0.14	0.74
	Lohardunga ...	Jhoomrah Hills ...	...	1.20	...	...	...	...	0.10	0.40	0.30	...	1.40	0.10	1.00	1.00	...	...	0.70	0.10	0.20	0.40
		Burha ...	2.00	0.45	0.40																		

Bengal for the month of August 1890—concluded.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Heaviest rainfall during the month.	Total rainfall from 1st January 1890 up to 31st August 1890.	Average rainfall from 1st January up to 31st August.	Station.	District.	Meteorological division.
0.45	0.37	1.42	0.55	1.12	0.14	0.33	...	1.74	...	...	20	14.8	11.07	10.40	3.37	43.53	34.10	Tajpore	Durkhunga ...	NORTH RHARANGHAT.																		
0.05	1.91	3.35	2.92	1.23	0.14	0.00	0.21	1.37	0.04	0.14	20	15.0	15.84	11.14	3.35	52.38	35.55	Durkhunga.																						
1.81	4.04	0.34	1.88	...	0.10	...	0.35	1.45	0.07	0.10	21	14.9	17.73	10.47	4.04	58.74	35.37	Madhubani.																						
0.03	0.50	1.80	3.72	0.14	0.00	...	0.20	0.30	...	...	16	?	8.65	?	3.73	44.18	?	Bahera.																				
1.90	0.35	0.43	1.23	0.82	1.45	...	1.85	0.05	...	...	18	?	14.00	?	1.00	42.31	?	Roshara.																				
0.30	0.06	2.79	0.44	0.82	0.82	0.08	0.03	1.74	...	...	22	13.3	15.41	9.73	2.79	43.73	33.63	Sitamarhi	Moulterpore.																			
0.06	0.34	4.54	0.11	1.00	0.08	...	...	1.38	...	...	20	18.0	15.89	10.25	4.54	40.57	32.73	Moulterpore.																		
0.22	0.41	0.75	0.56	0.32	1.06	0.04	...	0.37	0.18	...	20	16.8	9.45	10.64	1.22	40.62	33.10	Hajipore.																						
0.15	3.50	1.50	0.60	...	0.13	...	0.85	0.50	...	...	15	?	18.43	?	3.00	53.08	?	Para.																				
1.30	0.10	3.32	0.42	0.11	...	...	1.30	...	...	...	13	?	0.04	?	3.32	40.73	?	Mahus.																	
...	3.10	1.50	...	...	...	0.70	...	1.40	...	...	8	?	3.25	?	3.10	41.13	?	Sukhar.																	
...	0.90	1.80	1.18	0.23	0.05	...	...	2.50	...	0.18	14	?	11.39	?	1.80	45.83	?	Pupri.																				
0.10	0.03	1.08	4.46	0.48	...	...	...	2.13	...	...	13	14.3	12.68	13.33	4.46	58.27	35.78	Motihari	Champaran.																
0.26	2.70	0.14	0.32	0.05	0.41	0.12	2.24	1.73	0.10	...	19	14.5	15.18	12.12	2.74	55.44	35.33	Bentah.																						
1.40	0.77	1.24	0.39	0.01	0.42	0.05	...	0.39	1.53	...	20	?	20.83	?	6.27	69.90	?	Bagaha.																						
...	...	...	...	...	...	...	...	0.82	0.03	...	19	?	10.00	?	1.70	46.76	?	Barkhara.															
0.72	1.36	1.19	0.25	...	2.31	...	0.81	...	...	...	18	13.9	17.47	10.80	3.87	44.00	34.40	Gopalgunge	Saran.																		
1.02	0.21	0.21	1.01	1.74	...	0.31	0.09	...	...	...	20	15.0	15.47	10.49	3.13	47.85	32.76	Rawan.																			
0.83	0.03	0.10	...	1.81	0.03	...	0.11	...	...	...	17	14.4	10.03	9.35	3.60	41.88	29.71	Chuprah.																			
0.00	2.80	2.15	0.11	...	1.73	0.25	...	1.02	...	...	22	16.0	16.59	10.06	3.89	42.96	30.42	Boxar	Shahabad ...	SOUTH RHARANGHAT.																		
0.43	0.10	1.42	0.22	0.70	2.30	0.28	...	0.85	0.03	...	20	16.1	14.25	12.30	3.80	42.90	31.47	Dehra.																						
...	1.88	0.48	0.90	1.00	0.20	0.04	...	0.03	...	...	21	14.4	10.54	12.00	2.50	33.34	32.42	Bhubnesh.																				
0.49	0.03	1.80	0.13	1.02	1.32	...	0.17	0.54	...	...	24	15.0	12.82	12.15	3.01	37.09	31.40	Banseran.																				
0.16	0.42	0.26	0.06	...	1.35	0.07	0.03	0.09	0.06	...	25	15.3	12.83	10.33	1.55	54.18	33.31	Arrah.																						
0.20	1.30	0.50	2.10	0.41	...	...	...	...	...	...	12	?	9.31	?	2.15	39.70	?	Mohantah.																
2.73	1.30	5.00	0.28	0.57	0.88	0.30	...	1.73	...	0.08	23	14.2	9.87	12.08	5.90	54.31	33.77	Aurangabad...	Gya.																					
0.23	0.28	2.92	0.01	0.94	1.05	0.02	0.82	3.97	...	...	24	14.7	20.93	10.01	3.87	54.93	31.77	Gya.																				
0.21	0.33	0.67	...	0.71	0.28	0.32	1.07	...	...	...	23	13.8	14.80	11.48	2.93	50.59	32.55	Nowadah.																			
0.12	1.11	1.41	0.07	...	0.45	...	0.06	...	...	...	23	14.4	14.70	12.90	2.34	48.82	33.41	Jehanabad.																			
1.40	1.30	1.40	...	...	1.20	...	...	...	...	...	17	?	20.30	?	3.20	49.74	?	Arwal.															
0.40	0.30	0.60	1.30	0.30	0.30	0.30	...	0.50	...	...	18	?	8.95	?	3.00	24.95	?	Daudnagar.																				
1.10	1.20	0.20	0.30	0.40	1.00	...	0.40	1.00	...	...	16	?	13.48	?	3.20	31.13	?	Nkeerphat.																				
...	...	0.70	0.20	0.50	0.65	0.68	0.68	0.80	...	...	17	?	14.01	?	2.05	41.34	?	Rajauli.																				
...	3.20	4.10	0.30	...	1.10	0.70	...	...	...	...	12	?	14.10	?	4.10	37.58	?	Pakri Bara.																		
1.78	0.35	1.05	0.54	2.72	3.54	0.12	...	0.27	...	...	19	16.8	17.38	10.00	3.54	46.00	30.85	Patna.																				
1.83	0.10	1.40	0.60	2.61	3.42	...	...	0.93	...	...	19	13.4	16.20	11.60	3.42	41.90	32.36	Dinapore.																		
0.44	0.31	0.80	0.38	0.47	0.14	0.33	0.41	1.36	0.06	...	24	17.2	9.99	11.33	1.58	58.17	34.40	Behar.																						
0.10	0.30	0.80	...	1.08	3.60	...	0.43	0.30	...	...	17	12.1	12.40	9.60	3.60	35.63	31.09	Barrh.																				
0.12	0.75	0.80	0.67	0.44	0.11	0.34	...	0.10	...	...	21	?	14.04	?	4.10	52.30	?	Bichram.																				
...	0.85	0.29	2.27	0.44	0.15	0.20	0.13	0.40	...	...	21	?	11.35	?	3.27	40.36	?	Hile.																				
0.43	0.42	1.80	0.10	...	0.43	0.30	0.15	3.10	0.03	...	18	15.0	10.89	10.33	3.10	37.93	31.77	Regooesari	Monghyr.																					
1.37	0.98	0.41	0.09	...	0.01	0.14	...	3.40	...	...	17	17.6	9.98	10.72	1.85	47.33	33.13	Monghyr.																				
...	1.30	0.28	0.16	1.10	0.20	0.15	...	1.23	...	...	20	15.1	11.09	12.14	3.08	57.23	30.18	Jamui.																				
...	1.81	...	...	...	...	...	3.23	2.32	...	...	11	?	21.16	?	4.42	60.95	?	Ongr.															
0.77	...	...	...	1.10	0.43	...	...	0.85	...	...	16	?	14.85	?	3.10	41.86	?	Shikhpura.															
0.36	0.41	0.06	0.32	0.40	0.22	...	...	5.01	0.10	...	22	17.5	16.42	10.80	5.01	51.88	30.04	Bhagnipore	South Bhagnipore.																			
...	...	0.70	1.41	0.93	0.45	0.11	...	0.51	...	...	21	17.3	10.02	11.65	1.96	38.00	34.03	Banka.																				
...	1.65	0.21	0.35	0.60	0.50	0.40	...	0.65	...	...	20	?	10.03	?	1.75	50.19	?	Kalgang.																				
...	...	5.41	...	...	...	...	...	3.40	...	...	47	?	10.16	?	6.41	87.49	?	Bangan.															
0.03	0.15	0.09	0.77	0.00	1.91	0.16	...	0.44	0.13	...	19	15.7	11.00	10.05	3.46	39.66	40.51	Rajmahal	Sonthal Pergunnahs.																					
0.02	0.10	0.06	0.90	0.10	0.10	0.10	...	0.13	...	...	18	10.3	10.30	11.93	2.60	43.77	35.19	Godda.																				
0.29	0.27	0.98	1.01	0.03	0.06	...	...	...	0.10	...	22	17.7	11.88	13.12	2.51	50.38	44.44	Pakour.																			
1.41	0.04	1.71	1.13	0.34	0.12	...	...	0.07	...	...	21	23.0	19.79	14.07	4.38	58.58	42.06	Nya Dooinka.																		
0.25	0.06	0.31	0.06	0.01	0.20	0.21	...	3.01	0.33	...	20	18.1	9.84	13.37	1.71	40.73	30.62	Deoghar.																						
1.25	0.84	0.50	0.12	1.15	0.84	0.50	...	0.13	...	...	24	18.0	11.27	13.34	2.75	51.65	40.40	Jamtara																				
...	0.31	...	0.4	...	0.21	...	0.11	...	...	...	21	?	10.65	?	2.15	43.81	?	Mohagoma.																			
...	...	...	...	...	...	...	...	...	...	...	10	?	5.27	?	1.05	24.00	?	Nantah.												
0.24	0.83	1.80	0.69	...	...	...	...	0.13	...	...	16	22.5	9.87	12.94	3.10	46.03	30.69	Pachamha	Hazaribagh ...	MUTTA NAPORE.														
0.03	0.17	0.34	0.64	0.12	1.58	0.01	...	0.79	...	...	24	22.3	10.99	13.14	1.81	41.47	28.14	(Ordi).																				
0.90	1.70	1.9	0.92	...	0.13	0.18	...	...	...	...	17	17.6	8.33	12.25	1.79	32.34	37.76	Hazaribagh.																		
0.22	0.80	...	...	...	...	...	...	...	...	...	17	10.0	...	...	...	...	...	Santagurh.								
0.30	0.30	0.30	...	...	...	...	...	...	...	...	17	21.1	10.10	16.30	1.40	45.70	47.66	Mahud. Hills.														
0.13	0.48	0.28	0.6	0.02	0.30	0.36	0.10	0.84	0.02	...	19	?	10.03	?	5.10	43.40	?	Jhounrah Hills.																						
0.67	0.98	0.75	1.50	0.55	1.95	0.50	0.85	1.18	...	...	19	?	10.05	?	3.02	43.42	?	Barka.																				
3.10	2.27	0.84	0.40	1.71	0.05	...	...	0.03	...	...	21	?	10.73	?	2.27	48.00	?	Chatra.																		
1.00	0.90	...	...	...	...	...	...	...	...	...	21	?	10.73	?	2.27	48.00	?	Karagusha.													
...	...	...	...	...	...	...	...	...	...	...	21	?	10.73	?	2.27	48.00	?	Kamghar.												
0.42	0.30	1.07	0.65	0.49	0.26	1.00	0.80	0.18	...	...	20	25.8	22.14	15.31	7.07	47.04	40.23	Lohardugga	Lohardugga.																			
0.54	0.16	0.57	0.64	0.09	0.24	...	...	...	...	...	17	21.0	17.70	12.27	1.20	35.25	30.42	Kanchi.																	
0.50	0.04	0.30	0.42	0.50	2.71	...	0.10	0.20	...	...	25	17.5	12.87	12.03	2.71	40.74	34.61	Palamow.																				
1.40	...	...	1.00	0.40	...	...	...	...	...	...	77	?	8.00	?	1.00	30.70	?	Salt.														
0.40	0.51	0.80	0.55	0.72	...	0.04	3.00	0.13	...	...	20	?	17.34	?	2.40	30.03	?	Autumat.																				
1.40	0.84	...	1.48	1.30	...	...	...	1.31	...	...	11	?	14.31	?	3.41	32.80	?	Moonabad.	</																

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS
TAKEN IN ASSAM, FOR THE MONTH OF AUGUST 1890.**

The chief peculiarities in the weather of the month of August have been—

(1). Pressure has been either normal or slightly above the normal, and though it has never differed much, there is a moderate excess in the means for the month.

(2). Temperature has been slightly below the normal in the southern and largely below in the northern districts, especially during the latter half of the month.

(3). Rainfall has been scattered in Lower Bengal throughout the month, and was very scanty in the northern districts during the first two weeks, but during the last two heavy and general rain fell, and in consequence the total falls in the northern half of the province are several inches above the normal.

(4). Stormy weather has never occurred, but several very unimportant depressions formed off the Orissa Coast and either filled up shortly afterwards or moved in a north-westerly direction. The only effect of these depressions in Bengal was slightly higher wind velocities for a day or two, and the scattered rainfall in the early part of the month when most of them occurred.

(5). Very light winds have been blowing except in the eastern districts, as is shown by a table given below of velocities at a few coast stations.

During the first half of the month, the trough of low pressure extended from the head of the Bay in the usual north-westerly direction, and the wind circulation was without interruption southerly or easterly in East and North Bengal and Behar, but in Orissa, South-West Bengal, and Chutia Nagpur wind directions were more variable because of the influence of the shallow depressions, three of which formed during the first two weeks. The monsoon current flowing over the province during this period was, therefore, entirely from the Bay, and as it passed without interruption into the North-Western Provinces, very little rain fell in Bengal. Conditions changed during the second half of the month. The trough of low pressure either moved close up to the hills, or the distribution over Bengal was very uniform, in both of which cases the moist current from the west of India was likely to force its way over the western districts and at times the whole of Bengal. In North Bengal and Behar frequent changes of winds from east to west occurred, and then rainfall was heavy and general. From the 17th to the 19th westerly winds were blowing as far east as Dinagepore, but on the 20th a shallow diffused depression over the head of the Bay and South-West Bengal gave the usual cyclonic circulation, which continued till the 22nd, after which westerly winds blew for several days, and again towards the end of the month. The heavy rain in Behar and North Bengal was probably due to the western current as that from the Bay was very weak, or perhaps to the interference of the two currents, an upward motion and greater condensation probably resulting.

The depressions during the month have, as stated above, been unusually feeble and at times would have been hardly noticeable but for a faint cyclonic circulation. The first began on the 2nd, close to the coast of the Circars, where it remained deepening slightly, but almost without change of position till the 6th, when it moved in a north-westerly direction into Central India. On the 9th pressure was again lowest at the southern end of the trough off the Orissa Coast, and winds were irregularly cyclonic at a few neighbouring stations, but on the 10th a considerable deepening occurred in the Central Provinces, which caused strong easterly winds over the whole of Bengal with the exception of Orissa. This shallow low pressure area moved to the north-west and filled up, after which pressure was again lowest over the western districts of Bengal, from which a similarly shallow depression moved to the west and filled up several days afterwards in the North-West Provinces. Up to this date, therefore lowest pressure was either over Orissa or the western districts, and hence steady southerly and easterly winds were blowing except near the depressions. During the latter half of the month two very shallow depressions formed at the head of the Bay, the first on the 19th and the second on the 26th. They both moved in a northern direction over Bengal where they filled up, leaving the pressure distribution very uniform, and caused the inrush of westerly winds which was followed by the heavy rainfall in the northern districts during these days.

In the following table are given the actual daily wind velocities for August, compared with the normal values for the same period at stations on and near the coast line from Akyab to Gopalpore. At all of these, except Dacca, the velocity is below the normal, the greatest differences being at Calcutta, Saugor Island, and Gopalpore. In August of last year the mean velocity at the various stations was very similar to that of the present year, and then rainfall was deficient in all districts except Orissa, but the trough of low pressure retained its position well to the west of the province, instead of closing up towards the hills about the middle of the month. This tends to show that if the western current had been prevented by the low pressure area from flowing over Bengal, rainfall would have been

again below the normal in the northern districts owing to the very weak monsoon at the head of the Bay.

STATIONS.			Actual average wind velocity for August 1890.	Normal wind velocity in August.	Variation of actual for August from the normal.
			Miles per day.	Miles per day.	
Akyab	...	...	72	120	- 48
Chittagong	...	...	134	144	- 10
Dacca	...	...	108	168	+ 28
Jessore	...	...	80	120	- 40
Calcutta	...	...	68	168	-100
Saugor Island	...	...	359	456	- 97
Balasore	...	...	128	144	- 21
False Point	...	...	224	288	- 60
Pooree	...	...	260	288	- 28
Gopalpore	...	...	248	360	-112

Pressure—Was considerably above the normal during the first few days of the month, after which a steady fall continued till the end of the first week. The largest excess was on the 4th, when it varied from .1 inch to .15 inch in all districts except Chutia Nagpur, Orissa, and Assam. During the second week there was generally a small defect, and while the shallow depression existed, defect within it was only a little over a twentieth of an inch. Mean defect was about .03 inch in South-West Bengal, Chutia Nagpur, and South Behar, while in the other districts it was rarely over .1 inch. Changes continued to be very unimportant in the latter half of the month, but the distribution was steadily above the normal by amounts ranging up to a twentieth of an inch. As there was a slight defect during the second week only, the means for the month are everywhere above the normal by between two and three hundredths of an inch.

Temperature—Notwithstanding a partial break in the rains, which gradually extended over the province—has rarely been above the normal, and then these higher temperatures generally occurred in the south-west. For the first week means were practically normal in Orissa, South-West Bengal, and East Bengal, and below elsewhere by amounts between 4° in Chutia Nagpur and 2.1° in North Behar. In the second week greater irregularity occurred, and excess was confined to the northern districts. After rainfall became more general, low temperatures were again recorded in Behar and North Bengal, and till the end of the month considerable defect prevailed. During the third week temperature was about 1° above the normal, but towards the end of the month lower temperatures were general, and means were normal, in South-West Bengal and about 1° below in the other districts except North Bengal, where the difference was slight and Assam where it exceeded 2°. The monthly mean for South-West Bengal is normal, and for the other districts below the normal, defect being under half a degree in Orissa and East Bengal and between 1° and 1.5° in Behar and Assam.

Rainfall—Has been deficient in Orissa, South-West Bengal, East Bengal, and Chutia Nagpur, and above the normal in Behar and North Bengal, defect in South-West Bengal being 4.1 inches, in Chutia Nagpur 3.42 inches, in Orissa 2.25 inches, and in East Bengal 1.83 inches; while excess in North Bengal is 4.36 inches, in North Behar 3.94 inches, and in South Behar 2.78 inches. These differences are from 20 to 30 per cent of the normal except in East Bengal, where it is only 12 per cent. In these southern districts the total rainfall up to the end of August does not differ from the normal by more than 6 per cent, but in North Behar excess is 39 per cent., in South Behar 33 per cent., and in North Bengal 21 per cent.

The comparison of the actual rainfall in the various large divisions of the province with the normal is most accurately and conveniently shown in the form of a percentage. The figures representing the rainfall for the month, calculated in this way, are included in the table below under the heading of August. This table really gives a condensed summary of the rainfall statistics of the present year up to date for each meteorological division, the first eight divisions giving the actual average rainfalls in each division in each month expressed as a percentage of the normal, while the ninth column gives the total rainfall for the first eight months expressed as a percentage of the normal rainfall for that period—

METEOROLOGICAL DIVISIONS.	January.	February.	March.	April.	May.	June.	July.	August.	Actual rainfall of first eight months of 1890, expressed as a percentage of the normal fall for the period.
Orissa	24	5	216	20	99	124	97	80	96
South-West Bengal	98	Nil	99	75	87	141	102	69	94
East Bengal	181	4	70	123	102	89	120	88	99
North Bengal	98	Nil	26	166	81	132	129	132	121
North Behar	38	2	25	40	95	140	174	134	139
South Behar	Nil	5	63	80	95	183	136	125	133
Chutia Nagpur	Nil	Nil	120	1	65	132	116	75	97

Falls of more than 15 inches have been received in the south-east corner, including the Sunderbuns, Noakhally, and Chittagong; in parts of the north of Chutia Nagpur, chiefly in the Hazaribagh and Manbhum districts; in Gya and Patna, in South Behar; in the greater

part of North Behar, the exceptions being parts of North Bhagulpore, Durbhunga, and Mozufferpore; and over the whole of the northern half of North Bengal. Falls under 10 inches are confined to the north of Orissa, the south of Chutia Nagpur, the greater part of South-West Bengal, and irregular portions of East Bengal. The heaviest falls in North Bengal are Buxa 51.48, Alipore Dooars 46.07, Cooch Behar 45.36, Matabhanga 43.35, Kurseong and Mickilgunge 37.64, Bhagatpore 37.06, and Julpigoree 31.07 inches. Falls over 20 inches have been received in North Behar at the following stations:—Kissengunge, Balarampore, Kaliagunge and Bagaha; in South Behar at Gya, Aurungabad, and Arwal; in East Bengal at Cox's Bazar, Chittagong, Noakhally, Fenny, and Durgapore. The following stations received less than 5 inches:—Kurdah in Orissa; Garbetta, Bankoora, Bishenpore, Khatra and Anda in South-West Bengal; Daudkandi and Kusba in East Bengal.

As compared with the normal, heavy falls have been received in the south of Orissa, the west of Chutia Nagpur and South Behar, the whole of North Behar and North Bengal; while defect of more than 4 inches is recorded in the east of Chutia Nagpur, the west of South-West Bengal, the Sunderbuns and part of Tipperah. Defect is over 8 inches at the following stations in South-West Bengal and Chutia Nagpur, Tumlook, Bankoora, Khatra and Raipore, and over 10 inches at Chyebassa, Ghattal, Garbetta and Bishenpore. Excess is over 8 inches at Hajipore and Maldah, over 10 inches at Raigunge, Kissengunge and Gya, over 15 inches at Mickilgunge and Aurungabad, and over 20 inches at Cooch Behar and Matabhanga.

The following table gives full data for the comparison of the actual and normal rainfall of the month of August in all districts of the province. The figures are derived from the average and actual rainfall of the rain-recording stations in each district, due allowance or weight being made for the area which each station represents. This gives a more accurate average than the arithmetical means given in the weekly and monthly meteorological tables. The first column gives the normal or average district rainfall as determined from the rainfall observations of the past fifteen years; the second column gives the actual district rainfall as determined from the weighted actual rainfalls of the month at the reporting stations in each district; the third column expresses the ratio of the actual district rainfall of the past month to the normal rainfall as a percentage; the fourth column states as a percentage how much the district rainfall of the month varied from the normal—

Percentage Table for August 1890.

DIVISION.	DISTRICT.	Normal district rainfall for August.	Actual district rainfall for August 1890.	Percentage of actual to normal rainfall.	Percentage excess (+), defect (-).
Orissa	Pooree	11.46	10.85	95	- 5
	Cuttack	12.20	8.88	73	- 27
	Balasore	11.77	7.42	63	- 37
	Midnapore	13.25	6.90	52	- 48
	24-Pergunnahs	13.72	10.64	78	- 22
	Howrah	14.28	8.12	57	- 43
South-West Bengal	Hooghly	14.21	8.57	60	- 40
	Burdwan	12.36	6.86	56	- 44
	Bankoora	13.78	4.46	32	- 68
	Beerbhoom	13.07	11.91	91	- 9
	Nuddea	12.19	8.66	71	- 29
	Khoolna	12.46	9.10	73	- 27
East Bengal	Jessore	11.54	10.11	87	- 13
	Moorshedabad	11.79	11.11	94	- 6
	Chittagong	23.48	23.74	101	+ 1
	Backergunge	16.14	12.33	76	- 24
	Noakhally	23.49	21.98	94	- 6
	Furreedpore	12.08	10.31	85	- 15
North Bengal	Dacca	12.78	12.32	96	- 4
	Tipperah	13.37	11.77	88	- 12
	Mymensingh	14.07	12.93	92	- 8
	Pubna	11.95	9.10	76	- 24
	Bogra	11.81	14.69	124	+ 24
	Rajshahye	11.48	8.44	73	- 27
North Behar	Maldah	12.03	16.60	138	+ 38
	Dinapore	11.87	16.10	136	+ 36
	Rungpore	12.35	14.32	116	+ 16
	Cooch Behar	20.04	38.06	190	+ 90
	Julpigoree	25.91	31.07	120	+ 20
	Darjeeling	26.67	29.65	111	+ 11
South Behar	Purneah	14.63	22.42	153	+ 53
	North Bhagulpore	11.27	14.19	126	+ 26
	Durbhunga	10.71	15.49	145	+ 45
	Mozufferpore	10.11	13.23	131	+ 31
	Chumperun	12.18	14.17	116	+ 16
	Saran	10.21	13.80	135	+ 35
Chutia Nagpur	Shahabad	11.40	12.79	112	+ 12
	Gya	11.71	20.88	178	+ 78
	Patna	10.66	13.33	126	+ 26
	Monghyr	11.21	10.69	95	- 5
	South Bhagulpore	11.23	13.71	123	+ 23
	Sonthal Pergunnahs	12.79	13.20	104	+ 4
Chutia Nagpur	Hazaribagh	13.07	9.91	76	- 24
	Lohardugga	12.51	17.05	144	+ 44
	Singbhoom	13.78	3.48	25	- 75
	Manbhoom	12.87	5.31	41	- 59

SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 10, 1890. 1841

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of August 1890 :—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.						RAINFALL.							
	Highest observed during month.	Lowest observed during month.	Averages for month.			Average mean of month above or below normal mean of month.	Of month.			Rainy days.			Since 15th May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in month.	Normal average number in month.	Variation.	Average.	Normal average.
Orissa	91.9	74.8	87.4	78.3	82.8	-0.3	9.15	11.40	-2.25	16.1	16.2	-0.1	35.41	34.83
South-West Bengal	93.3	75.1	85.3	78.3	83.3	0	8.57	12.77	-4.10	17.2	19.5	-2.3	39.23	37.63
East Bengal	90.8	72.0	85.9	76.9	81.4	-0.4	14.10	15.25	-1.15	21.2	22.0	-0.8	57.12	58.06
North Bengal	92.8	75.1	86.9	77.9	82.4	-0.7	18.20	13.84	+4.36	21.2	18.8	+2.4	63.40	60.57
North Behar	95.5	73.4	87.4	78.1	83.8	-1.0	15.54	11.60	+3.94	19.0	15.9	+3.1	51.26	54.31
South Behar	98.4	72.7	87.0	77.7	83.4	-1.2	14.15	11.37	+2.78	21.1	16.2	+4.9	44.25	51.39
Chutia Nagpur	88.5	68.7	83.6	71.6	77.1	-0.7	10.10	12.82	-2.72	19.5	21.0	-1.5	36.23	36.76
Assam	94.6	74.3	86.4	76.9	81.7	-1.4								

* Chyabam not included.

METEOROLOGICAL OFFICE, BENGAL ;
The 9th September 1890.

C. LITTLE,
Offg. Meteorological Reporter to the Govt. of Bengal.

Meteorological Report of the Province of Bengal

METEOROLOGICAL DIVISION.			STATION OBSERVATIONS.													
			DISTRICT.	Representative station.	AIR PRESSURE.			WIND.		TEMPERATURE.						
					Mean barometre height, 8 A.M.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wind velocity.	High during week.	Date.	Lowest during week.	Date.	Mean maximum temperature.	Mean minimum temperature of week.	Mean daily temperature of week.	Variation from normal mean of week.	Mean, 8 A.M.
OCEAN.	Pooree	Pooree	29.734	29.744	—	Calm	202	93.7	2nd Sep.	77.4	30th Aug.	91.0	80.6	85.8	—	83.7
		Gopulpore	29.727	29.748	+0.07	N & Calm	171	92.3	4th ..	70.8	31st ..	90.3	78.9	84.0	+1.2	82.7
		False Point	29.718	29.740	+0.09	W & W	176.3	91.5	1 & 3 ..	75.6	30th ..	89.0	77.3	83.4	+0.4	82.3
	Outtack	Outtack	29.671	29.732	+0.03	Calm	56.9	94.9	3rd ..	76.3	30th ..	92.5	78.6	85.0	+1.4	84.1
	Halasore	Halasore	29.680	29.730	+0.020	Calm	67.3	94.4	5th ..	74.8	30th ..	90.8	78.1	84.5	+2.3	84.1
SOUTH-WEST BENGAL.	South-West Midnapore	Saugor Island	29.712	29.738	+0.14	SW	267	91.3	5th ..	70.5	30th ..	88.4	81.6	85.0	+1.7	84.6
	South 24-Pergunnahs	Midnapore	29.683	29.733	+0.02	S	143.7	95.3	3 & 5 ..	76.1	30 & 31 ..	92.2	77.8	85.0	+2.1	85.0
	24-Pergunnahs	Calcutta	29.706	29.730	+0.006	SW	41.1	91.5	3 & 5 ..	75.7	30th ..	88.9	77.8	83.4	+0.9	80.1
	Howrah	Howrah	29.627	29.727	+0.005	SW	58.0	93.6	5th ..	75.4	5th Sep.	91.9	78.2	85.4	+1.3	82.9
	Hoochly	Hoochly	29.405	29.705	+0.008	W	65.0	93.1	3 & 5 ..	70.1	3rd ..	92.3	77.5	85.1	+2.0	80.1
	Burdwan	Burdwan	29.584	29.717	+0.11	Variable	38.1	96.0	4th ..	76.9	30th Aug.	92.3	78.7	85.5	+2.4	80.1
	West Burdwan	West Burdwan	29.644	29.723	—0.14	SSW	11.1.6	91.7	2nd ..	76.3	31st ..	89.3	79.5	84.4	+1.0	80.1
	Moorsheadabad	Moorsheadabad	29.648	29.716	—0.006	W & W	101.9	?	?	?	?	?	?	?	?	?
	Nuddra	Krishnagur	29.688	29.722	—0.11	Calm	36.9	93.3	5th ..	76.4	30th ..	90.7	79.3	85.9	+1.4	82.1
	Jessore	Jessore	29.639	29.779	—0.08	SE	101.9	90.6	5th ..	74.0	30th ..	85.4	76.6	80.5	—0.3	70.1
	Chittagong	Chittagong	29.659	29.779	—0.08	SE	101.9	90.6	5th ..	74.0	30th ..	85.4	76.6	80.5	—0.3	70.1
EAST BENGAL.	Chittagong Hill Tracts	Demagiri	29.720	29.732	—0.08	Southerly	86.5	89.8	4 & 5 Sep.	78.3	30th ..	87.3	79.3	83.4	+1.9	80.1
	Rachergunge	Rachergunge	29.731	29.775	+0.15	SE	93.6	87.0	4 & 5 ..	75.8	30th ..	84.4	76.9	80.7	—0.8	80.1
	Noakholly	Noakholly	29.701	29.744	+0.01	SSW	90.0	89.5	5th ..	76.9	30th Aug.	89.6	80.8	83.3	+1.1	80.1
	Furreedpore	Furreedpore	29.704	29.727	—0.020	S	133.4	90.0	5th ..	77.7	30th ..	87.8	79.8	83.9	+0.7	80.1
	Dacca	Dacca	29.704	29.760	0	S	107.6	89.9	5th ..	76.8	30th ..	86.0	77.0	81.6	—0.4	80.1
	Commillah	Commillah	29.677	29.735	—0.020	South-westerly.	84.9	87.7	4 & 5 ..	75.1	31st Aug. & 3rd Sep.	85.3	76.6	81.9	—1.6	80.1
	Mymensingh	Mymensingh	29.638	29.701	+0.01	Variable	48.6	91.3	4th ..	74.1	30th Aug.	87.8	76.2	83.9	—0.7	80.1
	Rogra	Rogra	29.673	29.719	—0.021	South-easterly.	77.9	87.1	3 & 4 ..	75.7	2nd Sep.	84.9	77.9	81.5	—1.2	80.1
	Pahna	Pahna	29.643	29.713	+0.01	SW	156.6	90.3	4th ..	76.8	3 & 4 ..	85.0	78.7	83.4	—0.6	80.1
	Rajshahye	Rajshahye	29.616	29.697	+0.41	SW	57.0	93.4	5th ..	78.9	5th ..	91.4	80.6	85.0	+2.0	80.1
	Waldah	Waldah	29.571	29.691	—0.049	South-westerly.	41.9	91.6	5th ..	75.1	30th Aug.	88.7	78.3	83.5	+0.4	70.1
NORTH BENGAL.	Dinapore	Dinapore	29.591	29.719	—0.13	Variable	69.4	89.8	4 & 5 ..	73.7	30th ..	87.6	76.7	81.7	—1.2	70.1
	Kungpore	Kungpore	29.591	29.719	—0.13	Variable	69.4	89.8	4 & 5 ..	73.7	30th ..	87.6	76.7	81.7	—1.2	70.1
	Julpigore	Julpigore	29.409	29.709	—0.27	?	?	86.4	1st ..	75.1	30th Aug.	84.0	74.4	79.3	—2.3	70.1
	Cooch Behar	Cooch Behar	29.409	29.709	—0.27	?	?	86.4	1st ..	75.1	30th Aug.	84.0	74.4	79.3	—2.3	70.1
	Darjeeling Hill Tracts	Darjeeling	22.888	—	—0.74	WSW	131.3	65.1	3rd ..	55.1	30 & 31 ..	61.5	56.0	56.7	—1.0	60.1
	Purneah	Purneah	29.590	29.657	—0.31	Calm	75.0	91.7	4 & 5 ..	73.4	30th ..	85.3	77.7	83.0	—2.5	60.1
	North Bhagulpore	North Bhagulpore	29.469	29.669	—	W	122.4	93.2	4th ..	77.3	30th ..	90.4	81.0	85.8	—	60.1
	Mozufferpore	Mozufferpore	29.519	29.684	—0.06	WSW	118.1	92.4	4 & 5 ..	75.5	31st ..	89.9	78.9	84.4	+1.2	60.1
	Durghunga	Durghunga	29.455	29.683	—0.14	SW	302.9	96.2	4th ..	76.9	30th ..	91.6	78.6	85.3	+1.0	60.1
	Chumpona	Chumpona	29.432	29.674	—0.22	W	191.5	94.3	4 & 5 ..	79.5	30 & 31 ..	90.7	80.8	85.8	+2.3	60.1
	Shahabad	Shahabad	29.330	29.703	—0.004	W	25.8	93.3	4 & 5 ..	70.0	30th ..	89.9	79.1	84.5	+1.4	60.1
SOUTH BENGAL.	Arrah	Arrah	29.457	29.689	—0.05	W	26.2	93.4	4 & 5 ..	76.7	30th ..	89.0	78.8	84.3	+0.9	60.1
	Gya	Gya	29.404	29.689	—0.03	WSW	94.6	94.6	5th ..	76.0	30th ..	89.0	78.3	84.0	—0.6	60.1
	Gya	Gya	29.336	29.716	+0.11	S.W.y.	118.9	96.5	4th ..	75.3	30th ..	90.2	78.5	84.5	+0.5	60.1
	Patna	Patna	29.508	29.689	—0.023	W	127.9	94.6	4th ..	78.2	31st ..	91.0	79.8	85.4	+1.4	60.1
	South Bhagulpore	South Bhagulpore	29.521	29.683	—0.10	SW & Calm	29.0	93.2	4 & 5 ..	70.0	30th ..	89.9	77.9	83.9	+0.6	60.1
	Monghyr	Monghyr	29.217	29.713	+0.07	Variable	49.5	93.5	5th ..	77.2	30, 31, 1 & 3 Sep.	90.7	77.7	84.3	+2.1	60.1
	North 24-Pergunnahs	North 24-Pergunnahs	27.736	29.738	+0.24	W & WNW	140.3	85.5	4th ..	70.7	30 & 31 Aug.	85.0	72.0	79.0	+1.0	70.1
	Hasaribagh	Hasaribagh	27.736	29.738	+0.24	W & WNW	140.3	85.5	4th ..	70.7	30 & 31 Aug.	85.0	72.0	79.0	+1.0	70.1
	Chardugga	Chardugga	27.622	29.730	+0.32	Calm	124.8	80.0	4th ..	69.4	30th ..	85.8	71.7	78.8	+1.2	70.1
	Maulbhoom	Maulbhoom	26.971	29.736	+0.41	W	73.4	89.9	5th ..	73.2	3rd Sep.	80.9	73.4	82.7	+0.8	60.1
	Binabroom	Binabroom	29.404	29.748	—0.042	Variable	—	88.0	1st ..	74.3	30th Aug.	84.8	75.6	80.1	—2.9	70.1
ARUN.	Assam	Dhubri	29.504	29.713	—0.024	SSW	123.5	84.2	1 & 2 ..	74.8	30th ..	82.5	70.9	79.1	—3.6	70.1
		Silchar	29.664	29.761	—0.028	Calm	—	91.5	5th ..	74.3	31st ..	80.1	73.8	81.0	—1.6	70.1

Explanation.—Summary.—The normal means of air pressure and temperature are the arithmetical average or means of the reading during the same period for the last ten years. The humidity of the atmosphere is expressed at percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The number of the number of the amount of the rainfall in that district determined from the returns sent in by the sub-divisional stations for the period in question during the stations in the district sending in returns divided by the number of stations. A rainy day is one on which at least hundredth of an inch fell.

for the week ending Friday, the 5th of September 1890.

DISTRICT OBSERVATIONS.														Representative station.	DISTRICT.	METEOROLOGICAL DIVISION.
Average humidity at 5 A.M.	Average cloud amount at 5 A.M. for week.	Rainfall of week at observing station.	OF WEEK.		RAINFALL.											
			Mean for district.	Normal mean.	Since 1st of August.			Since 15th May 1890.			Average number of rainy days.	Normal number of rainy days.				
					Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.						
85	4.3	1.85		3.85		13.40				35.51			4.0	Pooree	Pooree	ORISSA.
81	1.0	0.80												Gopalpore		
84	5.1	1.34												Faine Point		
75	5.3	1.63	1.85	2.00	11.21	13.40	-1.25	38.63	39.13	+2.41	2.6	3.7	Cuttack	Cuttack		CENTRAL INDIA.
88	0.4	0.36	1.00	2.33	5.64	13.34	-4.60	33.40	37.23	-3.83	1.8	4.0	Balasore	Balasore		
83	3.0	0.18	0.54	3.51	0.75	17.03	-7.23	33.99	44.51	-10.52	2.0	4.2	Sanner Island	South-West Midnapore South 24-Pergunnahs		
81	2.3	2.87	1.33	2.48	5.63	16.80	-10.18	31.86	40.09	-8.10	2.3	4.0	Midnapore	Midnapore		SOUTH-WEST BENGAL.
87	4.1	1.08	1.91	2.00	9.50	16.08	-5.58	37.80	40.07	-2.27	2.3	4.3	Culcutta	24-Pergunnahs... Howrah Hooghly		
81	4.4	4.74	3.97	2.36	9.50	13.84	-4.34	47.06	31.88	+11.18	3.0	4.0	Burdwan	Burdwan		
82	4.3	0.99	0.41	2.80	5.21	15.18	-10.97	38.06	41.45	-3.39	1.0	4.3	Bankoora	Bankoora		SOUTH-WEST BENGAL.
79	2.7	0.33	0.56	3.19	10.55	15.55	-5.01	45.53	40.56	+4.97	2.5	4.1	Hansegunge	Heerbhoom West Burdwan		
91	5.0	1.65	1.88	1.98	11.53	14.21	-2.68	43.51	37.37	+6.14	3.3	4.3	Berhampore	Moorsheadabad		
9	4.3	2.73	2.37	2.33	9.33	13.73	-3.43	37.49	37.23	+0.27	2.8	4.1	Krishnagar	Nuddea		SOUTH-WEST BENGAL.
90	5.4	0.85	1.73	2.33	9.34	13.94	-4.00	40.90	40.84	+0.06	2.1	4.2	Jessore	Jessore Khoulna		
89	5.3	7.92		4.23		27.37		93.37				3.0	Ohittagong	Ohittagong		
				3.07		19.35		30.43				3.0	Damagiri	Chittagong Hill Tracts		SOUTH-WEST BENGAL.
86	5.1	1.49	0.97	3.49	13.61	13.13	-0.52	54.43	59.34	-4.91	2.0	5.0	Barrisal	Backergunge		
96	2.6	1.53	2.18	5.44	25.41	23.63	-3.23	78.99	63.00	-15.99	5.0	5.3	Noakholly	Noakholly		
86	4.0	2.00	1.00	2.84	10.11	14.34	-4.23	33.57	43.18	-9.61	1.3	4.3	Furzedpore	Furzedpore		SOUTH-WEST BENGAL.
90	7.7	0.97	1.40	3.34	13.93	15.35	-1.43	46.37	45.56	+0.81	2.3	4.3	Dacca	Dacca		
90	4.4	1.73	1.88	3.55	11.01	13.43	-2.42	45.70	33.35	+12.35	3.0	4.3	Commilla	Tipperah		
94	2.1	3.05	3.53	3.43	14.53	16.37	-1.84	58.76	33.09	+25.67	4.0	4.2	Mymensingh	Mymensingh		SOUTH-WEST BENGAL.
90	5.1	0.96	4.73	3.04	13.95	13.81	+0.14	50.14	44.03	+6.11	4.5	3.7	Bogra	Bogra		
92	7.1	4.04	2.81	3.23	10.63	16.40	-5.77	37.90	39.99	-2.09	3.5	3.3	Serajunge	Pubna		
84	2.9	2.84	1.73	3.39	9.03	13.71	-4.68	50.90	39.67	+11.23	3.3	4.1	Rampore Beaulah	Rajshahye		SOUTH-WEST BENGAL.
84	1.4	0.64	0.63	3.50	16.63	14.41	+2.21	41.60	41.06	+0.54	1.3	4.2	Maldah	Maldah		
88	9.1	3.51	1.61	5.27	16.31	14.03	+2.28	53.10	43.31	+9.79	2.0	4.0	Dinagore	Dinagore		
83	0.4	3.50	5.14	4.09	30.13	13.17	+16.96	64.03	43.03	+21.00	6.0	4.3	Rangpore	Rangpore		SOUTH-WEST BENGAL.
98	6.3	7.33	11.43	7.19	44.33	27.31	+17.02	133.04	69.27	+63.77	7.0	5.4	Jalpigore	Jalpigore Cooch Behar		
99	10.0	4.49	8.63	5.73	37.57	31.49	+6.08	134.23	98.93	+35.30	6.3	5.5	Darjeeling	Darjeeling Hill Tracts		
93	5.7	2.34	1.97	3.63	19.40	13.14	+6.26	60.55	44.49	+16.06	2.4	3.3	Purneah	Purneah North Bhagulpore		SOUTH-WEST BENGAL.
99	1.0	—	0.59	2.73	13.47	13.24	+0.23	43.69	31.47	+12.22	1.3	3.3	Mosufferpore	Mosufferpore		
90	2.9	0.13	0.23	3.27	14.97	13.06	+1.91	49.94	33.97	+15.97	1.7	3.4	Durbhanga	Durbhanga		
96	4.4	—	0.26	3.04	11.16	14.33	-3.17	53.39	33.96	+19.43	1.9	3.3	Mothari	Chumpra		SOUTH-WEST BENGAL.
80	1.9	—	Nil	2.93	14.43	11.79	+2.64	43.94	31.49	+12.45	0.0	3.1	Chupra	Saran		
87	2.1	0.93	0.03	3.06	13.45	13.93	-0.48	40.51	30.17	+10.34	0.3	3.3	Dehree	Shahabad		
75	1.3	0.03												Buxar		SOUTH-WEST BENGAL.
77														Arrah		
73	3.1	—	0.03	3.01	30.03	13.17	+16.86	51.53	32.40	+19.13	0.3	3.0	Gya	Gya		
73	4.1	—	0.01	2.13	14.04	13.00	+1.04	30.19	31.66	-1.47	0.3	3.1	Bankipore	Patna		SOUTH-WEST BENGAL.
82	4.7	0.09	0.63	2.84	13.23	13.23	-0.00	45.94	33.13	+12.81	0.3	3.3	Bhagulpore	South Bhagulpore Monghyr		
78	0	0.12	0.14	3.01	13.49	14.07	-0.58	45.31	33.46	+11.85	1.0	3.3	Dumka	South Bhagulpore		
74	4.4	—	Nil	3.43	9.61	13.99	-4.38	39.95	30.01	+9.94	0.0	4.1	Hasaribagh	Hasaribagh		SOUTH-WEST BENGAL.
71	5.1	—	0.09	3.30	14.55	13.63	+0.92	39.07	37.74	+1.33	0.3	4.3	Ranchi	Lohardugga Manbhoon		
		0.10	1.95	2.73	14.54	14.54	-0.00	32.21	36.44	-4.23	2.0	4.0				
81	4.1	1.63	1.84	2.67	4.54	13.99	-11.35	25.99	41.03	-15.04	4.0	4.4	Ohyabasa	Singbhoon		SOUTH-WEST BENGAL.
86	9.7	1.07											Sibmgar			
86	9.9	7.37											Dhubri			
91	9.1	3.00											Stichar			ASSAM.

on years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater.
 amounting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means
 on years. The means of the district are the numerical average of the rainfall return received in the district, i.e., from total rainfall at the subdivisional

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of September 1890.

Meteorological division.	District.	Station.	RAINFALL.							TOTAL		Total rain- fall since 1st of August.	Average total rain fall from 1st of August.	Total rain- fall since 1st of May 1890.	Average rainfall from 1st of May to date.
			Saturday, 29th August.	Sunday, 30th August.	Monday, 1st September.	Tuesday, 2nd September.	Wednesday, 3rd September.	Thursday, 4th September.	Friday, 5th September.	Number of rainy days.	of Rainfall week.				
NORTH- WEST BENGAL.	Pooree	Pooree	1.50	0.03	2.33	0.23	3	1.78	13.61	10.81	30.75	30.68
		Khurdah	2	4.78	8.56	13.87	47.75	34.25
		Banpur	0.46	0.31	2	1.34	11.94	14.49	32.16	32.16
		False Point	0.41	0.33	2	1.34	11.94	14.49	32.16	32.16
		Gop	2	1.34	11.94	14.49	32.16	32.16
		Satpara	0.46	2	1.34	11.94	14.49	32.16	32.16
	Ootacch	Pipli	2	1.34	11.94	14.49	32.16	32.16
		Jagatsingpore	0.20	1.75	0.05	2.10	4	4.10	13.95	11.33	38.10	31.00
		Banki	0.54	0.40	3	1.34	11.97	12.15	41.24	34.16
		Cuttack	0.00	0.40	3	1.40	14.48	13.93	21.94	40.70
		Kendrapara	0.27	1.02	0.41	3	1.10	0.88	13.94	21.51	39.47
		Jajpore	0.33	1	0.33	0.33	11.89	31.60	37.07
	Balasore	Dharmasala	0.00	1	0.00	0.00	11.89	31.60	37.07
		Saltipore	1	0.00	0.00	11.89	31.60	37.07
		Chandhall	0.17	1	0.17	0.17	12.40	29.37	34.64
		Bhuddruck	0.06	1.20	0.15	3.40	1.20	4	5.01	9.64	12.16	25.31	30.19
		Sorah	0.10	1	0.10	0.10	12.40	31.77	34.64
		Balasore	0.29	1	0.29	0.29	12.40	31.77	34.64
Midnapore	Jellalsore	0.10	.....	.....	.....	.....	0.17	.....	2	0.27	0.27	13.01	32.38	37.66
	Ranipodah	.....	.....	.....	.....	.....	.....	.....	2	0.27	0.27	13.01	32.38	37.66
	Contal	0.11	.....	.....	.....	.....	0.07	.....	2	0.18	0.18	10.83	30.63	42.96
	Sankor Island	0.18	.....	.....	.....	.....	.....	.....	1	0.18	0.18	10.83	30.63	42.96
	Tumlook	0.20	0.40	.....	.....	.....	.....	.....	1	0.20	0.20	10.83	30.63	42.96
	Midnapore	0.34	2.04	0.37	.....	.....	.....	.....	1	0.34	0.34	10.83	30.63	42.96
24-Pergunnahs	Ghatthal	0.18	0.42	.....	.....	.....	.....	.....	2	0.60	0.60	14.44	34.94	37.30
	Kutubdia	0.19	0.49	.....	.....	.....	0.36	.....	3	0.64	0.64	14.44	34.94	37.30
	Garbetta	.....	0.20	.....	.....	.....	.....	.....	1	0.20	0.20	14.44	34.94	37.30
	Diamond Har- bour	0.22	1.00	.....	.....	.....	0.04	.....	4	0.04	0.04	12.37	17.36	38.02
	Canning Town	2.00	.....	.....	.....	.....	0.45	.....	1	0.45	0.45	17.07	45.95	44.16
	Alipore Jail	1.05	1.21	.....	.....	.....	.....	.....	2	2.26	2.26	10.14	16.10	30.81
Hajrab	Barrackpore	2.83	.....	.....	.....	.....	0.38	.....	1	0.38	0.38	10.14	16.10	30.81
	Dum-Dum	0.23	.....	0.09	.....	.....	0.23	.....	2	0.23	0.23	10.14	16.10	30.81
	Berach	2.19	.....	.....	.....	0.09	.....	.....	1	0.09	0.09	10.14	16.10	30.81
	Bumrabat	0.19	.....	0.27	.....	1.28	.....	.....	2	1.28	1.28	10.14	16.10	30.81
	Howrah	0.17	0.45	.....	.....	.....	.....	.....	2	0.62	0.62	10.14	16.10	30.81
	Mohesra	0.00	0.03	.....	.....	.....	.....	.....	1	0.03	0.03	10.14	16.10	30.81
Hooghly	(Dolberia)	.....	.....	.....	.....	.....	.....	.....	1	0.03	0.03	10.14	16.10	30.81
	serampore	0.54	.....	.....	.....	0.51	.....	.....	2	1.05	1.05	10.14	16.10	30.81
	Hooghly	0.69	.....	.....	.....	1.93	0.07	0.03	4	2.72	2.72	10.14	16.10	30.81
	Jehansabad	.....	.....	.....	.....	.....	.....	.....	1	0.03	0.03	10.14	16.10	30.81
	.....	.....	.....	.....	.....	.....	.....	.....	1	0.03	0.03	10.14	16.10	30.81
	.....	.....	.....	.....	.....	.....	.....	.....	1	0.03	0.03	10.14	16.10	30.81
Burdwan	Quina	1.97	0.37	.....	5.15	.....	.....	0.62	4	6.31	10.40	12.48	43.20	34.11
	Burdwan	0.67	.....	.....	.....	0.77	.....	2.40	3	3.84	11.33	14.49	32.16	32.16
	Cutwa	0.34	.....	0.40	.....	.....	.....	.....	2	0.74	0.74	10.14	16.10	30.81
	Raoungunge	0.23	0.11	.....	.....	.....	.....	.....	2	0.34	0.34	10.14	16.10	30.81
	Manbar	0.00	.....	.....	.....	0.01	.....	.....	2	0.01	0.01	10.14	16.10	30.81
	.....	.....	.....	.....	.....	.....	.....	.....	2	0.01	0.01	10.14	16.10	30.81
Bankura	Bankura	.....	.....	.....	.....	.....	1.00	.....	1	1.00	1.00	10.14	16.10	30.81
	Bishnupore	.....	.....	.....	.....	0.13	.....	.....	1	0.13	0.13	10.14	16.10	30.81
	Malik	.....	.....	.....	.....	.....	.....	.....	1	0.13	0.13	10.14	16.10	30.81
	Khata	.....	0.25	.....	.....	.....	0.25	.....	2	0.50	0.50	10.14	16.10	30.81
	Indra	.....	0.73	.....	.....	0.20	.....	.....	2	1.03	1.03	10.14	16.10	30.81
	Kotalpore	.....	0.85	.....	.....	.....	.....	.....	1	0.85	0.85	10.14	16.10	30.81
Hoerbheem	Anda	.....	.....	.....	.....	0.15	.....	.....	1	0.15	0.15	10.14	16.10	30.81
	Gangajalhati	.....	0.23	.....	.....	.....	0.15	.....	1	0.23	0.23	10.14	16.10	30.81
	Raipur	.....	0.12	0.43	.....	0.19	.....	.....	3	0.73	0.73	10.14	16.10	30.81
	Sonmukha	.....	.....	.....	.....	.....	.....	.....	1	0.12	0.12	10.14	16.10	30.81
	.....	.....	.....	.....	.....	.....	.....	.....	1	0.12	0.12	10.14	16.10	30.81
	.....	.....	.....	.....	.....	.....	.....	.....	1	0.12	0.12	10.14	16.10	30.81
Nuddea	Bh. Soory	.....	0.02	.....	.....	0.21	0.03	0.02	4	0.28	0.28	10.14	16.10	30.81
	Hotampore	.....	.....	.....	.....	0.00	.....	.....	2	0.00	0.00	10.14	16.10	30.81
	Bampore Haut	.....	0.07	.....	.....	.....	.....	0.17	2	0.17	0.17	10.14	16.10	30.81
	Boipore	.....	.....	.....	.....	.....	0.05	0.08	2	1.03	1.03	10.14	16.10	30.81
	Murari	.....	.....	.....	.....	.....	.....	.....	2	1.03	1.03	10.14	16.10	30.81
	.....	.....	.....	.....	.....	.....	.....	.....	2	1.03	1.03	10.14	16.10	30.81
Koolna	Ranaghat	1.20	0.57	.....	.....	1.04	.....	1.10	4	4.21	9.76	14.80	39.08	39.08
	Kishinagar	0.57	.....	.....	0.26	1.20	.....	0.02	4	2.64	11.38	13.94	43.93	34.70
	Choochanga	0.05	.....	.....	.....	.....	.....	.....	1	0.05	0.05	10.14	16.10	30.81
	Meherpore	0.75	1.57	.....	.....	.....	.....	.....	2	2.32	2.32	10.14	16.10	30.81
	Koostha	0.74	0.66	2.72	.....	.....	.....	.....	3	3.64	11.11	14.17	37.17	40.43
	.....	.....	.....	.....	.....	.....	.....	.....	3	3.64	11.11	14.17	37.17	40.43
Jessore	Matthira	2.44	.....	.....	.....	1.21	0.03	.....	3	3.77	12.75	14.33	43.80	41.96
	Bagirhat	.....	1.08	.....	.....	.....	.....	.....	1	1.08	1.08	14.33	43.80	41.96
	Khoolna	0.75	.....	.....	.....	0.17	.....	.....	2	0.93	0.93	14.33	43.80	41.96
	Vakipur	.....	.....	.....	.....	.....	.....	.....	1	0.17	0.17	14.33	43.80	41.96
	Rampal	.....	.....	.....	.....	0.21	.....	.....	1	0.21	0.21	14.33	43.80	41.96
	.....	.....	.....	.....	.....	.....	.....	.....	1	0.21	0.21	14.33	43.80	41.96
Moorehobad	Narail	.....	0.16	0.05	.....	.....	.....	.....	3	0.21	0.21	14.33	43.80	41.96
	Jessore	0.39	.....	0.10	.....	.....	.....	.....	2	0.49	0.49	14.33	43.80	41.96
	Jhenidah	3.41	.....	0.45	.....	.....	.....	.....	2	3.86	11.66	14.83	43.80	41.96
	Magorah	0.32	.....	0.02	.....	.....	.....	.....	2	0.34	0.34	11.34	14.83	37.96
	Bongora	0.40	.....	.....	.....	1.45	.....	1.21	3	3.11	9.25	11.83	35.79	37.96
	.....	.....	.....	.....	.....	.....	.....	.....	3	3.11	9.25	11.83	35.79	37.96
Chittagong	Kandi	.....	3.12	.....	.....	.....	.....	.....	1	3.12	13.27	13.27	46.61	37.61
	Berhampore	0.33	1.03	.....	0.00	.....	.....	.....	3	1.36	11.59	14.04	43.40	37.38
	Lalbeh	0.38	0.75	.....	0.08	0.25	.....	.....	4	1.46	11.22	14.24	45.78	36.01
	Azimgunge	.....	1.30	0.23	0.00	1.12	.....	.....	4	2.70	10.73	12.08	42.80	38.25
	Jung	.....	0.16	.....	0.08	0.18	0.03	.....	4	0.63	11.16	14.08	39.81	36.86
	Lakola	.....	0.72	.....	0.04	.....	0.45	.....	3	1.71	11.20	13.66	40.61	36.18
Chittagong Hill Tracts	Jayunge	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	Akhrigand	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
	Patkabori	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....
												

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of September 1890—contd.

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rainfall since 1st of August.	Average total rainfall from 1st of August.	Total rainfall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 30th August.	Sunday, 31st August.	Monday, 1st September.	Tuesday, 2nd September.	Wednesday, 3rd September.	Thursday, 4th September.	Friday, 5th September.	Number of rainy days.	Rainfall of week.				
EAST BENGAL—contd.	Noakholly ...	Gourmaddi ...	0.74	0.15	0.57	2	0.80	0.85	?	52.83	?
		Nauphal ...	0.83	0.29	3	1.63	15.83	?	50.36	?
		Noakholly ...	0.30	0.35	0.12	0.11	0.03	0.03	6	1.02	31.21	20.24	70.20	84.02
		Penny ...	0.02	0.75	0.15	0.02	4	2.74	20.61	27.05	57.78	83.88
	Farrakka ...	Harishpore ...	3.00	0.20	?	?	?
		Kamganj ...	0.10	1.50	?	?	?
		Madaripore ...	0.21	0.20	3	0.41	7.89	14.10	31.32	40.75
		Farrakka	0.13	1	0.13	14.47	15.43	45.08	45.08
	Dacca ...	Goulundo ...	2.45	1	2.45	8.04	18.31	38.54	40.34
		Munshigunge ...	0.24	0.24	1.20	3	1.47	12.20	18.25	51.98	56.96
		Dacca ...	0.70	0.14	0.10	3	1.06	11.44	13.14	44.70	44.70
		Naraingunge ...	0.13	0.20	2	0.42	14.72	14.44	46.75	47.32
	Hill Tipperah ...	Manikganj ...	2.41	0.04	2	2.45	12.45	13.54	43.41	38.96
		Jydehpore ...	0.85	0.18	0.03	0.03	4	1.10	14.17	?	51.01	?
		Agartala ...	0.47	0.25	0.20	3	0.91	8.10	15.70	48.20	46.29
		Gomilla ...	0.02	0.64	0.19	0.03	4	1.18	12.05	20.64	54.41	51.12
	Tipperah ...	Chandpore ...	1.18	1	1.18	12.74	22.07	47.14	54.25
		Brahmunheria ...	0.85	2.80	0.60	5	4.25	10.31	14.90	46.95	46.17
		Kamchandrapore	?	?	?
		Nasirnagar ...	0.03	1.00	3	1.46	5.06	?	53.08	?
	Mymensingh ...	Daudkandi ...	0.23	0.40	0.75	3	1.46	5.06	?	53.08	?
		Kasba	0.75	1	0.75	12.53	?	62.43	?
Laksham ...		.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?
Kishoreganj ...		4.35	.....	0.70	.....	0.43	.....	0.07	4	5.55	16.05	16.21	55.09	53.26
Mymensingh ...	Atia (Tangail) ...	1.21	.....	.....	.....	0.43	.....	.....	1	1.21	8.19	15.46	41.99	41.34
	Mymensingh ...	0.21	0.45	0.02	1.02	0.29	0.09	0.47	7	3.04	14.78	16.40	51.14	55.92	
	Jamulpore ...	1.31	0.20	1.24	0.00	.....	.....	.....	7	3.04	14.78	16.40	51.14	55.92
	Netrokona ...	1.20	.....	0.84	2.05	.....	.....	.....	4	3.17	7.40	18.80	48.19	51.94
Sherpore Town ...	Subornakhal ...	4.37	0.75	.....	2.02	.....	.....	0.06	4	3.17	7.40	?	?	?
	Durgapore ...	1.35	1.00	.....	0.85	.....	0.50	.....	4	3.17	7.40	?	?	?
	Sherpore Town ...	0.40	0.31	0.67	1.29	.....	.....	.....	4	3.17	7.40	?	?	?
	Dewanganj ...	0.75	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
Pabna ...	Pabna ...	0.63	0.42	0.13	.....	.....	.....	.....	3	1.18	9.61	15.31	33.32	40.03
	Sarajganj ...	0.02	0.03	.....	2.60	.....	0.43	.....	4	4.44	11.61	13.47	44.32	30.80
	Sherpore ...	2.05	2.75	.....	12.15	.....	0.06	.....	4	7.01	16.03	14.47	51.71	45.01
	Nowkilla ...	0.12	1.70	0.44	2.43	.....	0.33	.....	5	5.01	14.35	12.44	47.03	40.40
Bogra ...	Bogra ...	2.18	1.83	0.27	1.25	0.04	.....	.....	5	5.57	14.84	14.37	50.30	47.43
	Panchbibi ...	0.28	0.08	0.45	.....	.....	0.13	.....	4	1.54	13.37	13.93	50.63	42.71
	Rajshahi ...	0.07	0.66	.....	0.08	0.17	1.04	.....	5	2.82	9.00	14.45	52.18	38.00
	Natore ...	0.14	0.20	.....	0.70	.....	.....	.....	3	1.04	10.86	15.04	57.17	47.72
Maldah ...	Nagaura ...	1.12	.....	0.80	.....	.....	.....	.....	3	1.47	2.25	11.05	48.02	30.30
	Lalpara ...	0.34	.....	.....	.....	1.11	.....	.....	2	1.45	8.98	?	33.05	?
	Manda ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
	Maldah ...	0.04	.....	.....	.....	.....	0.04	.....	1	0.04	16.64	19.71	43.32	37.73
Mishapora ...	Chanchal ...	0.55	.....	.....	.....	.....	0.04	.....	2	0.59	14.59	16.13	50.96	44.36
	Gajal ...	0.28	.....	.....	.....	.....	.....	.....	1	0.28	23.30	?	55.02	?
	Singaj ...	0.00	0.03	.....	.....	.....	0.11	.....	2	0.11	7.81	?	41.06	?
	Mohadebpore ...	.....	1.05	.....	.....	.....	.....	.....	1	1.05	7.50	16.02	41.41	44.04
Bungpore ...	Churamon ...	.....	0.08	.....	.....	.....	.....	.....	1	0.08	10.98	13.12	34.90	30.32
	Baigunge ...	1.05	0.51	.....	.....	.....	0.23	.....	3	2.31	24.50	14.54	53.48	45.25
	Dinapore ...	1.11	0.30	.....	0.30	.....	0.45	.....	4	2.22	18.84	16.00	58.83	45.35
	Balorhat ...	0.69	.....	.....	.....	.....	0.09	.....	1	0.69	13.75	11.61	41.78	40.67
Rungpore ...	Thakurgaon ...	1.04	0.03	.....	0.39	.....	0.24	1.27	5	3.54	25.10	11.61	73.18	40.67
	Buwalda ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
	(Oyabanda) ...	0.75	.....	1.30	0.22	0.72	0.03	0.03	5	3.31	18.52	12.65	63.24	47.49
	Rungpore ...	0.12	0.02	0.02	0.32	0.14	0.31	1.05	7	2.84	14.01	16.44	51.79	58.40	
Jalpigore ...	Kungrao ...	1.30	0.37	0.09	0.19	0.31	2.50	2.60	7	5.23	15.03	13.03	65.04	50.04	
	Haridra ...	2.13	.....	0.71	0.33	.....	0.08	2.35	5	6.10	25.04	18.72	75.03	67.34
	(Niphamedi) ...	2.08	0.23	0.06	.....	.....	2.04	1.12	5	6.03	21.66	?	50.91	?
	Ulipore ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
Jalpigore ...	Jalpigore ...	1.44	0.79	0.81	1.34	2.41	0.67	0.31	7	7.72	36.54	20.65	122.17	91.70	
	Alipore Dooar ...	0.70	2.11	2.41	8.21	3.00	1.85	0.66	7	20.63	62.80	?	150.96	?	
	Pallacotta ...	0.44	2.15	2.65	4.74	3.15	0.43	.....	6	14.00	51.13	?	110.02	?
	Debaganj ...	1.50	0.20	0.53	0.00	0.15	0.04	0.21	7	3.89	23.72	?	54.90	?	
Ooch Behar ...	Rhagatpore ...	1.75	2.50	3.01	2.41	2.68	0.75	.....	6	13.77	45.11	?	130.10	?
	(Narpatkatta) ...	2.50	0.24	0.74	0.64	1.71	7.08	0.51	7	13.90	36.08	22.89	95.92	73.75	
	Dinhatia ...	0.74	4.34	0.30	2.49	1.08	1.80	1.00	7	18.15	58.27	26.00	139.07	94.97	
	Ooch Behar ...	3.40	1.13	2.68	0.52	0.05	0.85	0.05	7	7.05	41.90	30.65	117.00	87.01	
Darjeeling Hill ...	Motikunja ...	1.63	0.04	3.30	1.02	0.55	1.00	0.13	7	9.38	40.94	20.30	138.03	91.80	
	Matuhunga ...	0.07	3.14	1.77	3.01	2.25	3.34	0.05	7	16.08	63.53	48.71	173.47	124.67	
	Buza ...	1.52	0.43	1.38	0.86	5.37	1.04	0.05	7	10.87	54.53	35.08	143.40	80.55	
	Shilipuri ...	3.05	0.11	0.34	0.06	0.74	0.01	0.38	7	4.09	31.08	29.91	124.49	86.00	
Purneah ...	Darjeeling ...	1.16	0.08	3.05	.....	0.88	0.00	0.30	6	4.08	24.28	21.30	80.70	60.07
	Kurseong ...	1.93	0.03	0.11	0.07	1.14	0.14	0.44	7	3.91	20.57	?	150.33	?	
	Kimongung ...	1.80	0.26	.....	0.36	.....	.....	0.54	4	3.26	20.07	19.23	70.75	53.27
	Artaroh ...	1.38	0.48	.....	0.30	.....	.....	1.60	4	3.76	21.80	14.49	62.01	49.01
North Bhagulpore ...	Purneah ...	2.00	0.23	.....	.....	.....	.....	0.05	3	2.34	19.14	16.05	61.80	45.30
	Gondwana ...	.....	.....	.....	.....	.....	.....	.....	.....	.....	?	?	?	?
	Batarumpore ...	4.33	.....	.....	.....	.....	.....	.....	1	1.53	23.05	?	73.34	?
	Masari ...	0.30	0.30	1.60	.....	.....	.....	.....	7	6.98	23.05	?	90.94	?
Darbhanga ...	Katigani ...	2.00	0.20	0.43	2.40	0.64	0.50	0.21	7	6.98	23.05	13.87	61.01	20.40	
	Naddapore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11.10	13.87	53.35	20.60
	Boopool ...	0.50	.....	.....	.....	.....	.....	.....	1	0.50	16.25	14.03	50.30	?
	Protsaganj ...	.....	0.70	0.25	.....	.....	.....	0.70	3	1.84	12.21	?	50.30	?
Mouafferpore ...	Tajpore ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	11.07	12.45	48.53	23.18
	Burhanga ...	0.04	0.14	.....	.....	.....	.....	.....	3	0.18	10.84	14.05	34.17	30.12
	Madhubani ...	0.07	0.10	.....	0.30	.....	.....	.....	3	0.47	18.02	12.66	43.41	35.00
	Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	8.65	?	60.45	?
Mouafferpore ...	Bahera ...	.....	.....	.....	.....	.....	.....	.....	Nil	Nil	14.00	?	60.45	?
	Bitamarhi ...	1.83	0.09	0.20	.....									

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 5th of September 1890—concluded

Meteorological Division.	District.	Station.	RAINFALL.							TOTAL.		Total rain-fall since 1st of August.	Average total rain-fall from 1st of August.	Total rain-fall since 15th May 1890.	Average rainfall from 15th May to date.
			Saturday, 30th August.	Sunday, 31st August.	Monday, 1st September.	Tuesday, 2nd August.	Wednesday, 3rd September.	Thursday, 4th September.	Friday, 5th September.	Number of rainy days.	of Rainfall week.				
NORTH BHAR	Bhargava...	Mothhari	0.10		0.05					Nil	Nil	12.66	14.33	54.94	34.08
		Bottiah								Nil	0.55	16.03	14.30	52.82	36.76
		Bapaka	0.03			0.04				2	0.07	20.35	?	67.50	?
SOUTH BHAR	Bhargava...	Barkhara								Nil	Nil	10.78	?	47.10	?
		Sarun								Nil	Nil	17.87	11.76	48.61	31.38
		Sewan								Nil	Nil	15.47	12.26	47.42	31.97
SOUTH BHAR	Shahabad	Chuprah								Nil	Nil	16.03	11.35	40.78	30.38
		Buxar								Nil	Nil	16.59	11.81	42.21	32.47
		Dhara	0.03							1	0.03	14.25	14.84	37.50	34.43
SOUTH BHAR	Shahabad	Bladonah								Nil	Nil	10.58	13.07	32.89	31.25
		Kamratu								Nil	Nil	12.82	12.97	36.69	30.16
		Arrah	0.06		0.04					2	0.10	12.97	12.45	34.79	30.63
SOUTH BHAR	Gya	Mohania								Nil	Nil	9.31	?	29.47	?
	Gya	Aurangabad		0.08						1	0.08	20.87	14.13	53.16	33.36
		Gya								Nil	Nil	20.95	12.99	53.68	33.46
SOUTH BHAR	Gya	Nowadah								Nil	Nil	14.86	12.12	50.01	30.77
	Gya	Jehanabad								Nil	Nil	14.70	13.40	48.30	31.93
	Gya	Arwal								Nil	Nil	8.95	?	24.95	?
SOUTH BHAR	Patna	Bandhagar								Nil	Nil	14.46	?	31.13	?
	Patna	Sherrphat								Nil	Nil	14.91	?	41.33	?
	Patna	Rajauli								Nil	Nil	14.10	?	47.48	?
SOUTH BHAR	Patna	Patri Barawan								Nil	Nil				
	Patna	Patna								Nil	Nil	17.38	12.13	44.08	32.17
	Patna	Binapora								Nil	Nil	16.29	12.70	40.02	31.98
SOUTH BHAR	Patna	Mohar	0.05							1	0.05	9.99	12.10	27.10	32.06
	Patna	Barrh								Nil	Nil	12.49	11.94	34.20	29.78
	Patna	Bikram								Nil	Nil	14.96	?	11.54	?
SOUTH BHAR	Patna	Bilas								Nil	Nil	11.55	?	41.15	?
SOUTH BHAR	Monghyr	Begooch	0.03							1	0.03	10.59	12.03	27.10	30.86
	Monghyr	Monghyr	0.03							1	0.03	9.03	14.88	45.08	35.47
	Monghyr	Jamui								Nil	Nil	11.99	13.14	53.18	34.40
SOUTH BHAR	South Bhaga-pore.	Gogri								Nil	Nil	21.16	?	64.61	?
	South Bhaga-pore.	Shikhpura								Nil	Nil	14.83	?	41.96	?
	South Bhaga-pore.	Bhagulpore	0.10							1	0.10	16.62	11.39	49.08	31.96
SOUTH BHAR	South Bhaga-pore.	Barka								Nil	Nil	10.02	12.74	34.95	32.06
	South Bhaga-pore.	Kolgaon	0.11							1	0.11	10.64	?	48.40	?
	South Bhaga-pore.	Bangson								Nil	Nil	15.16	?	55.94	?
SOUTH BHAR	Sonthal Per-gunnah.	Rajmohal	0.13							1	0.13	11.00	12.36	27.06	34.64
	Sonthal Per-gunnah.	Godna								Nil	Nil	10.30	12.23	41.44	36.54
	Sonthal Per-gunnah.	Pakour	0.10			0.10				2	0.20	10.93	10.93	51.37	41.00
SOUTH BHAR	Sonthal Per-gunnah.	Nya Doonka		0.12						1	0.12	11.98	10.44	54.90	42.01
	Sonthal Per-gunnah.	Deochur								Nil	Nil	19.91	13.97	39.90	37.14
	Sonthal Per-gunnah.	Jamira	0.33				0.08			2	0.41	11.35	14.30	50.12	38.54
SOUTH BHAR	Sonthal Per-gunnah.	Mohagama								Nil	Nil	16.55	?	42.38	?
	Sonthal Per-gunnah.	Namaut								Nil	Nil	5.37	?	22.84	?
SOUTH BHAR	Hamaribagh	Pachamba								Nil	Nil	9.57	14.31	45.53	36.60
	Hamaribagh	(Girdi)								Nil	Nil	10.99	15.40	40.66	37.00
	Hamaribagh	Hamaribagh								Nil	Nil	8.33	14.14	30.90	30.06
SOUTH BHAR	Hamaribagh	Semanturab								Nil	Nil	10.91	10.91	33.57	33.57
	Hamaribagh	Mahudi Hills								Nil	Nil	10.10	19.19	44.90	47.65
	Hamaribagh	Jhoomra Hills								Nil	Nil	10.03	?	43.05	?
SOUTH BHAR	Hamaribagh	Barka	0.03							1	0.03	16.05	?	41.47	?
	Hamaribagh	Chakra								Nil	Nil	15.73	?	48.37	?
	Hamaribagh	Karapada								Nil	Nil	16.60	?	38.66	?
SOUTH BHAR	Lohardugga	Kamhar								Nil	Nil				
	Lohardugga	Lohardugga								Nil	Nil	22.18	16.06	45.50	39.17
	Lohardugga	Kanchi								Nil	Nil	7.78	16.47	31.74	40.88
SOUTH BHAR	Lohardugga	Palamow				0.07				1	0.07	12.14	13.46	40.01	35.13
	Lohardugga	Silla								Nil	Nil	8.00	?	30.30	?
	Lohardugga	Rahmat								Nil	Nil	17.34	?	39.78	?
SOUTH BHAR	Lohardugga	Hosonabad								Nil	Nil	14.31	?	31.91	?
	Lohardugga	Gurnah								Nil	Nil	15.64	?	32.50	?
SOUTH BHAR	Singbhoon	Chyebam	0.03		0.03	0.04				3	0.10	6.54	15.90	26.00	41.68
	Singbhoon	Chakradhar								Nil	Nil	4.08	?	19.41	?
	Singbhoon	Chakradhar								Nil	Nil	5.53	?	36.36	?
SOUTH BHAR	Singbhoon	Chakradhar	0.45							1	0.45	9.45	?	39.30	?
SOUTH BHAR	Manbhoon	Parulla		0.18	0.06		0.03			3	0.27	8.97	15.31	25.00	38.39
	Manbhoon	Gobindpore			0.06					1	0.06	6.47	13.76	28.72	34.53
	Manbhoon	Kashanath-pore.								Nil	Nil	16.33	?	50.58	?
SOUTH BHAR	Manbhoon	Barabhoon		0.20						1	0.20	6.08	?	36.37	?
	Manbhoon	Jhalda	0.33				0.71			2	0.33	10.59	?	44.10	?
	Manbhoon	Chas								Nil	Nil	11.03	?	39.46	?

Explanation.—.....indicate that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 9th September 1890.

**SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS
TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-
TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE
5TH OF SEPTEMBER 1890.**

WEATHER during the past week has been notable for (1) the westerly current which has been blowing steadily in all districts except East Bengal and at times North Bengal: (2) the break in the rains which, being caused by the dry westerly winds, commenced in the western districts in the beginning of the week and gradually spread over the greater part of the province: (3) the high temperature which has resulted from the clear skies and scanty rainfall over the greater part of Bengal.

At the commencement of the week pressure was low along the foot of the hills, and as the difference from the normal was about a tenth of an inch in North Bengal and Assam, westerly winds forced their way as far east as Dhubri. Rainfall was confined to the east and south of the province, where heavy showers continued to fall. Temperature was everywhere considerably below the normal, but a rise of between 1° and 3° was general in the west of Behar, and as rainfall ceased it rose at nearly all stations, defect almost disappearing by the 1st of September. Pressure oscillations were very small throughout the week, and the distribution, though tending to become more normal in North Bengal and North Behar, was not affected to such an extent as would cause a change in the wind circulation. The interference of the southerly winds from the Bay blowing over East and North Bengal with the westerly current from Behar caused the heavier rainfall in these eastern districts, and in part of North Bengal falls were general and heavy throughout the week, while in East Bengal moderately heavy showers fell at nearly all stations during the first half. In Orissa and South-West Bengal the showers were fairly general on the 30th and 31st of August and again on the 3rd of September, but on other days, as in Behar and Chutia Nagpur, practically no rain has been received.

Pressure—Fell briskly on Saturday, the first day of the week, giving lowest readings along the foot of the hills and the greatest difference from the normal in North Bengal and Assam, but on other days changes have been small: first, slowly upwards till the distribution was very nearly normal, and again downwards towards the end of the week. The means for the week in South-West and East Bengal differ from the normal by a few thousandths of an inch only; they are above in Orissa and Chutia Nagpur by about two-hundredths, and below in North Behar and North Bengal and Assam by amounts ranging up to four-hundredths of an inch.

Temperature—Was at first two or three degrees below the normal in Lower Bengal and more than 5° in North Bengal and Assam, but the steady rise which has been going on throughout the week, brought it up to three or four degrees above the normal in all districts except North Bengal and Assam, where there was still a small defect on September 5th, the last day of the week. Defect in the mean for the week is 2.3° in Assam, 1.6° in South-West Bengal, 1.3° in Orissa, and $.5^{\circ}$ in North Bengal, while excess is 1.1° in Chutia Nagpur and $.9^{\circ}$ in Behar. The mean for East Bengal is practically normal.

Rainfall—As stated above, was scattered in the south-western districts on Saturday, Sunday, and Wednesday, and almost absent on the other days. Scattered showers also fell in North Behar on Saturday and Sunday, but, with the exception of these showers, very little rain fell in Behar or Chutia Nagpur. Almost general rain fell in East Bengal and the southern districts of North Bengal during the first half of the week and in the northern half of North Bengal throughout the week. The actual falls expressed as percentages of the normal falls for the large subdivisions are as follows:—North Bengal 108, Orissa 67, South Bengal and East Bengal 62, North Behar 26, Chutia Nagpur 7, and South Behar 2.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 5th of September 1890:—

METEOROLOGICAL DIVISIONS.	TEMPERATURE.							RAINFALL.								
	Highest observed during week.	Lowest observed during week.	Averages for week.			Average mean of week above or below normal mean of week.	Of week.			Rainy days.			Since 1st of August.		Since 1st May 1890.	
			Of highest of each day.	Of lowest of each day.	Of mean for each day.		Average.	Normal average.	Variation.	Average number in week.	Normal average number in week.	Variation.	Average.	Normal average.	Average.	Normal average.
Orissa	94.9	74.8	90.8	78.7	84.8	-1.3	1.50	3.22	-0.72	3.0	3.0	-1.19	9.81	15.01	35.06	56.16
South-West Bengal ...	93.0	73.4	90.8	78.9	84.9	-1.6	1.68	3.08	-1.00	2.6	6.1	-1.17	9.37	14.84	39.91	39.69
East Bengal	90.0	74.0	86.1	78.0	82.1	+0.1	2.25	3.69	-1.34	3.5	6.6	-1.11	15.00	18.57	58.20	57.71
North Bengal	88.4	73.1	87.5	77.4	82.5	-0.6	4.07	4.16	+0.51	4.6	4.2	+0.51	21.00	10.89	60.19	53.83
North Behar	84.3	73.4	90.2	79.4	84.8	+0.7	0.80	3.08	-2.28	1.4	3.4	-2.10	18.78	18.70	51.68	36.71
South Behar	95.5	75.5	90.4	78.0	84.5	+0.9	0.03	2.38	-2.23	0.0	3.3	-2.17	14.20	15.09	41.20	33.47
Chutia Nagpur	89.0*	69.4*	86.9*	71.9*	78.0*	+1.1*	0.18	2.51	-2.33	0.8	4.2	-3.4	10.39	15.61	56.07	38.37
Assam	91.5	74.3	84.4	75.7	80.1	-2.3										

* Ceylonese not included.

METEOROLOGICAL OFFICE, BENGAL;

C. LITTLE,

The 9th September 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

**Results of the Meteorological Observations taken at the Alipore Observatory from
31st August to 6th September 1890.**

Month.	Date.	Maximum in sun.	Number of hours of bright sunshine.	Mean pressure barometer at 32° Fahr.	TEMPERATURE.				HYGROMETRY.				WIND.		Rain.	WEATHER.
					Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour pressure.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.		
Aug.	31st	150.0	1.2	29.650	82.8	88.5	18.9	74.6	80.0	0.987	78.8	88	Calm and variable...	32	Nil	Chiefly cloudy, o.
Sept.	1st	149.3	8.0	.681	84.7	89.7	11.5	78.2	81.0	1.012	79.6	86	SW by W and calm	42	"	Partially cloudy, o, d.
"	2nd	156.5	6.9	.698	84.7	91.5	12.0	79.5	81.1	1.017	79.7	85	SW and calm	42	"	Partially cloudy, o, t, d, lr.
"	3rd	150.9	2.9	.709	83.8	88.4	9.5	78.9	81.3	1.035	80.3	89	Calm and variable...	42	"	Chiefly cloudy, o, k, t.
"	4th	150.5	8.4	.675	85.6	91.7	11.9	79.8	81.6	1.026	80.0	84	S by W, calm and variable.	51	"	Partially cloudy, d.
"	5th	153.4	8.0	.647	85.2	92.7	16.4	76.3	80.5	0.982	78.7	81	Calm and variable...	45	"	Partially cloudy, d.
"	6th	147.9	5.4	.620	84.2	91.0	13.6	77.4	79.1	.927	76.9	79	ENE, calm and variable.	47	1.04	Partially cloudy p, d.

The mean pressure of the seven days 29.669
The average pressure of the corresponding period for 24 years, S.-G.'s Office ... 29.646

The total number of hours of bright sunshine 40.8
The maximum possible number of hours of sunshine 87.5

The mean temperature of the seven days 84.4
The average temperature of the corresponding period for 24 years, S.-G.'s Office 83.5
The extreme variation of temperature 18.1
The maximum temperature 92.7

The highest velocity of the wind in one hour 10

The highest pressure of wind on one square foot Not measurable.

The mean relative humidity 84

The average relative humidity of the corresponding period for 24 years, S.-G.'s Office 86

The total fall of rain from 31st August to 6th September 1890 1.04

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 2.48

The total fall from 1st January to 6th September 1890 41.21

The average fall of the corresponding period for 24 years, S.-G.'s Office ... 50.50

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain gauge is one foot above the ground.

o, overcast; g, gloomy; t, thunder; p, passing temporary showers; d, drizzling rain; lr, lightning reflection; d, dew.

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of August 1890.

		Inches.	Date.
The mean pressure at 10 A.M. during the month	...	29.682	
The mean temperature at 10 A.M. during the month	...	84.7	
The highest temperature during the month	...	92.0	4th and 18th.
The lowest temperature during the month	...	75.8	23rd.
The absolute range of temperature during the month	...	16.2	
The mean daily range of temperature during the month	...	10.7	
The greatest range of temperature in one day during the month	...	15.0	30th.
The mean 10 A.M. humidity during the month	...	83	
The mean 10 A.M. vapour pressure during the month	...	.984	
The total rainfall of the month	...	10.40	
The greatest fall in 24 hours	...	2.30	6th.
The number of rainy days in the month	...	22	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 8th September 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 31st August to 6th September 1890.

MONTH.	Date.	Pressure at 10 A.M. corrected and reduced to 32° Fahr.	TEMPERATURE.						HYGROMETRY.			Rainfall past 24 hours.
			Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour pressure at 10 A.M.	Dew point at 10 A.M.	Humidity at 10 A.M.	
		Inches.	°	°	°	°	°	°	Inches.	°	%	Inches.
August ...	31st ...	29.720	83.9	90.0	12.2	77.8	85.0	80.8	.996	79.1	82	1.11
September ...	1st ...	.762	85.4	92.0	13.2	78.8	88.6	81.5	.981	78.6	78	...
"	2nd ...	.752	86.0	92.0	12.0	80.0	89.6	81.5	.987	78.2	70	...
"	3rd ...	.774	84.5	90.2	11.4	78.8	80.6	78.6	.949	77.6	91	0.09
"	4th ...	.730	86.5	93.0	13.0	80.0	89.4	81.5	.988	78.2	70	...
"	5th ...	.710	85.6	94.0	16.7	77.8	90.6	83.0	1.023	80.1	72	...
"	6th ...	.667	86.0	93.2	14.4	78.8	88.6	81.0	.957	77.9	71	...

The mean 10 A.M. pressure of the seven days	...	...	Inches.
The mean temperature of the seven days	...	...	85.4
The extreme variation of temperature	...	...	16.7
The maximum temperature	...	...	94.0
The mean 10 A.M. relative humidity of the seven days	...	...	% 76
The total fall of rain from 31st August to 6th September 1890	...	...	Inches. 1.20
The daily mean temperatures are the crude means of maximum and minimum temperatures.			

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

METEOROLOGICAL OFFICE, INDIA ;

The 8th September 1890.

MEMORANDUM.

Monthly review of deaths registered in forty-five districts of Bengal for the month of May 1890.

[The delay in the publication of this review is due to the non-receipt of the Julpaiguri district return, which was received in this office on the 2nd instant, more than three months after the month to which it relates.]

The deaths registered in forty-five districts of Bengal during the month of May 1890 were 124,450, and correspond to an annual rate of 22.56 per 1,000 of the aggregate population of those districts, which is 65,859,534. This rate is 1.32 higher than the mean rate of the corresponding months of the past five years 1885-89, and is also higher than the rate of the corresponding period of any of the past five years, except 1887, *vide* the figures below—

	May 1885.	May 1886.	May 1887.	May 1888.	May 1889.	Monthly average of five years, 1885-89.	May 1890.
Ratio of deaths per 1,000 of the population per annum	20.64	18.24	25.44	21.00	20.88	21.24	22.56

The following table shows the highest proportions of deaths registered during the month of May 1890, compared with the corresponding month of 1889 :—

<i>Districts.</i>		Ratio per mille during—		<i>Districts.</i>		Ratio per mille during—	
		May 1890.	May 1889.			May 1890.	May 1889.
Darjiling	...	59.76	45.84	Durbhanga	...	31.20	13.68
Monghyr	...	39.84	18.90	Hazaribagh	...	31.20	21.36
Patna	...	34.56	17.62	Chumparun	...	30.36	15.00
Bhagulpore	...	34.20	23.88	Lohardugga	...	30.36	17.40
Julpaiguri	...	33.24	44.16	Shahabad	...	28.44	15.96
Noakhali	...	32.64	30.36	Gya	...	28.08	15.60

Except in the case of Julpaiguri the figures of May 1890 show a distinct advance towards accuracy in death registration in the districts mentioned which is encouraging.

The total mortality during the month under review from the several registered death-causes is compared in the following table with the mortality from those causes in the corresponding month of 1889 and the average of the five years 1885-89 :—

				Ratio per mille during—		
				May 1890.	May 1889.	Monthly average of five years 1885-89.
Cholera	...	...	...	2.88	4.08	3.60
Small-pox	...	...	...	.24	.12	.12
Fever	...	...	...	15.84	12.72	13.68
Bowel-complaints	...	...	...	.48	.60	.72
Injury	...	...	...	.36	.36	.36
Other causes	...	...	...	2.62	2.64	2.62

Compared with the figures of both the past periods, there is a noticeable increase in the mortality of May 1890 under the head fever, and a sensible decrease in the death-rate from cholera.

The highest annual death-rates from cholera and fever occurred in the following districts :—

<i>Cholera.</i>				<i>Fever.</i>			
			Ratio per mille.				Ratio per mille.
Monghyr	...	...	13.68	Darjiling	...	...	46.08
Bhagulpore	...	...	12.24	Julpaiguri	...	...	28.92
Durbhanga	...	...	11.64	Noakhali	...	...	28.92
Chumparun	...	...	11.64	Hazaribagh	...	...	27.12
Maldah	...	...	7.68	Shahabad	...	...	25.68
Patna	...	...	6.72	Gya	...	...	23.88
Purneah	...	...	6.98	Lohardugga	...	...	23.52
Chittagong	...	...	2.64	Monghyr	...	...	23.40
Mozufferpore	...	...	2.64	Patna	...	...	22.20
Julpaiguri	...	...	2.52				
Rajshahye	...	...	2.28				
Saran	...	...	2.28				

From small-pox high mortality occurred only in the district of Chumparun—mortality 3.12 per 1,000 of population.

SUPPLEMENT TO THE CALCUTTA GAZETTE, SEPTEMBER 10, 1890. 1851

The mortality of the month under review, according to *Sex, Class and Age*, was distributed as follows:—

<i>According to Sex.</i>		<i>According to Class.</i>		<i>According to Age.</i>	
	<i>Ratio per mille.</i>		<i>Ratio per mille.</i>		<i>Ratio per mille.</i>
Males ...	24.60	Christians ...	14.52	Under 1 year ...	133.32
Females...	20.64	Hindus ...	23.76	1 and under 5 years	24.60
Ratio of male deaths to every 100 female deaths calculated on the proportion such mortality bears to the total male and female population ...	119	Mahomedans ...	20.68	5 " 10 "	11.88
		Buddhists ...	21.24	10 " 15 "	10.68
		Other classes ...	23.76	15 " 20 "	14.88
				20 " 30 "	15.60
				30 " 40 "	18.00
				40 " 50 "	23.64
				50 " 60 "	33.24
				60 years and upwards	52.68

Detailed information regarding the mortuary statistics of the forty-five districts of Bengal during the month under review will be found in the statement appended.

The 4th September 1890.

W. H. GREGG, *Dip. Publ. Health, Camb.,*
Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Deaths in the Districts in Bengal for the month of May 1890.

DIVISION.	DISTRICTS.	POPULATION.										DEATHS FROM—										RATIO PER 1,000 OF POPULATION PER ANNUM.										COMPARISON WITH PREVIOUS PERIODS.		DEATHS AMONG—		RATIO PER 1,000 OF POPULATION PER ANNUM.		Sex.							
		Males.		Females.		Total.		Cholera.		Small-pox.		Fever.		Bowel-complaints.		Injury.		Other diseases.		All causes.		Cholera.		Small-pox.		Fever.		Bowel-complaints.		Injury.		Other diseases.		All causes.		Ratio of deaths per 1,000 of population in the previous month.		Ratio of deaths per 1,000 of population in the corresponding month of the previous year.		Males.		Females.		Ratio of male deaths in every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population.	
		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.		Total.			
		Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.		
MURDAH	Burdwan	666,936	722,538	1,389,474	13	17	1,573	35	46	447	2,066	12	12	13,665	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Bankura	607,138	831,616	1,438,754	14	20	1,145	31	23	372	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Birbhum	581,563	412,466	994,029	14	16	1,091	6	21	412	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Medinipur	1,243,106	1,212,870	2,455,976	63	146	2,311	131	70	2,940	5,478	24	24	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
PRESIDENCY	Hughli	315,065	347,385	662,450	9	11	1,337	59	9	91	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Baranpore	174,368	177,568	351,936	12	6	448	59	9	91	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Total (Hughli including Baranpore).	600,631	824,974	1,425,605	40	17	1,582	157	31	231	2,127	12	12	13,665	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Howrah	316,479	316,408	632,887	24	45	410	126	35	317	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
RAJSHAHY	24-Pargunnah	901,921	812,221	1,714,142	24	20	1,514	19	55	317	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Nuddea	903,779	840,942	1,744,721	24	20	1,514	19	55	317	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Jessore	903,271	840,942	1,744,213	24	20	1,514	19	55	317	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Murshidabad	896,443	840,942	1,737,385	24	20	1,514	19	55	317	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
DARJEELING	Khutta	698,402	511,646	1,209,048	109	15	1,600	13	48	217	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Dinajpur	783,562	738,054	1,521,616	109	15	1,600	13	48	217	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Raibahye	660,710	875,888	1,536,598	109	15	1,600	13	48	217	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Rangpore	1,007,701	1,030,292	2,037,993	56	1	5,311	18	45	217	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
DARJEELING	Bogra	875,183	861,290	1,736,473	14	6	1,834	13	47	84	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Pubna	648,311	603,417	1,251,728	44	...	1,599	35	6	85	1,063	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Darjiling	893,351	840,942	1,734,293	123	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Jalpaiguri	893,351	840,942	1,734,293	123	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
DARJEELING	Dacca	1,023,883	1,082,437	2,106,320	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Faridpore	862,089	829,745	1,691,834	231	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Mymensingh	973,477	927,410	1,900,887	317	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Chittagong	1,833,940	1,600,694	3,434,634	431	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
CHITTAGONG	Noakhali	415,346	403,524	818,870	235	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Tippurah	768,430	745,911	1,514,341	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Patna	864,301	803,063	1,667,364	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Gya	1,043,441	1,043,441	2,086,882	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
PATNA	Shahabad	1,265,721	1,316,339	2,582,060	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Monirpore	1,296,788	1,316,339	2,613,127	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Durgha	1,065,547	1,140,932	2,206,479	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
	Barun	1,065,547	1,140,932	2,206,479	233	...	1,694	14	91	451	2,127	12	12	10,565	112	712	8,811	18,000	24,211	20,641	20,641	1,101	20,641	19,698	16,944	1,101	19,698	16,944	110	110															
BEHAR	Chumpra	870,037	1,064,481	1,934,518	233	...	1,694	14	91																																				

[illegible]

OFFICE OF SANITARY COMMISSIONER FOR BUREAU,

The 4th September 1890.

W. H. GEORGE, Dip. Publ. Health, Camb.,
Sanitary Commissioner for Bengal.

MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 23rd August 1890.

BIRTHS.

The births registered during the week ending with Saturday, the 23rd August 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 20·7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 2·7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, except 1887 and 1888—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of births per 1,000 of the population per annum	30·0	22·4	19·1	19·6	26·5	23·4	20·7

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.		2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.
Burdwan	18·7	18·7	15·3	16·8	Narainganj	24·8	16·6	33·1	16·6
Midnapore	16·8	18·9	18·4	18·6	Chittagong	4·7	4·7	10·4	9·4
Hughli and Chinsurah	14·8	16·4	6·6	14·3	Comilla	15·4	11·0	11·6	19·3
Serampore	27·8	23·6	23·6	13·7	Patna City	14·9	14·3	13·6	15·3
Utterpara	18·9	18·9	9·4	37·7	Gya	17·8	31·9	28·7	31·4
Howrah	17·8	14·3	18·3	21·8	Arrah	15·3	20·3	26·3	41·9
Bali	10·5	7·0	7·0	21·1	Mozufferpore	14·6	17·0	18·3	18·3
Krishnagar	8·7	11·4	13·3	14·9	Durbhanga	19·7	22·9	18·1	16·9
Banaghat	6·0	24·0	6·0	12·0	Chupra	6·0	3·0	12·1	18·1
Santipore	14·0	17·8	14·0	14·0	Bhagalpore	18·1	23·6	25·3	24·4
Jessore	18·4	6·1	.....	12·2	Monghyr	23·5	28·9	40·7	37·1
Rampore Beaulah	31·8	15·8	30·8	34·2	Purneah	10·4	13·9	6·9	.....
Darjiling	7·4	37·0	22·2	88·9	Poori	6·2	12·6	6·3	12·6
Dacca	11·0	14·3	17·5	10·4	Total	18·3	17·4	18·7	20·7

It will be seen that last week the highest birth-rate was returned from Darjiling (88·9), and the lowest from Chittagong (9·4). No births were registered during the week in Purneah town.

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 24·8 per 1,000 of the population. The rate of the week is 8·2 below the average rate of the corresponding week of the past five years, and also below the rate of the corresponding week of any of the past five years with which comparison is instituted—*vide* the figures below—

	1885.	1886.	1887.	1888.	1889.	Weekly average of five years, 1885-89.	1890.
Ratio of deaths per 1,000 of the population per annum	40·9	26·7	20·0	23·5	27·5	33·0	24·8

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

Towns.	Weeks ending—				Towns.	Weeks ending—			
	2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.		2nd August 1890.	9th August 1890.	16th August 1890.	23rd August 1890.
Burdwan	19·8	13·7	10·7	16·8	Narainganj	16·6	13·4	16·6	24·8
Midnapore	7·7	15·8	17·0	23·3	Chittagong	11·7	9·4	21·1	16·6
Hughli and Chinsurah	26·3	16·1	31·2	19·7	Comilla	20·9	7·7	23·1	30·9
Serampore	31·0	31·0	33·4	49·1	Patna City	13·0	20·1	16·3	30·6
Utterpara	37·7	9·4	27·7	18·9	Gya	44·4	66·7	64·7	60·3
Howrah	10·9	20·0	19·3	17·8	Arrah	8·4	20·3	13·3	15·0
Bali	14·0	10·3	24·6	28·1	Mozufferpore	15·3	23·1	20·7	15·0
Krishnagar	8·7	11·4	11·4	15·1	Durbhanga	16·3	24·6	27·5	14·9
Banaghat	24·0	24·0	12·0	20·9	Chupra	11·1	5·0	15·1	16·1
Santipore	17·8	19·3	14·0	26·3	Bhagalpore	14·5	19·7	21·4	12·6
Jessore	12·3	13·3	18·4	53·1	Monghyr	15·4	28·9	21·7	22·6
Rampore Beaulah	15·4	21·0	34·2	26·3	Purneah	13·9	24·3	13·9	24·2
Darjiling	38·9	66·7	66·7	37·0	Poori	33·8	23·1	23·3	43·0
Dacca	27·2	26·3	30·1	24·7	Total	19·2	23·3	23·3	24·8

It will be seen that last week the highest mortality occurred in the town of Gya (66·3) and the lowest in Arrah (12·).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.			Fever.			Other causes.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Santipore	...	15·8	Jessore	...	36·7	Gya	...	21·1
Mouafferpore	...	13·4	Gya	...	29·4	Serampore	...	19·6
Gya	...	13·0	Rampore	...	23·6	Poori	...	18·9
Patna City	...	7·8	Comillah	...	23·1			
Chupra	...	4·0	Poori	...	20·8			

The total mortality from the several registered death-causes in the twenty-seven principal towns amounted to 3·7 from cholera, against 3·5 per 1,000 in the preceding week; 10·5 from fever, against 9·4; 2·7 from bowel-complaints, against 3·9; 7·4 from other causes, against 5·4 in the preceding week. Small-pox and injury exhibit the same ratios as in the preceding week, viz., ·1 and ·4 respectively.

The mortality of last week according to Sex, Class, and Age was as follows:—

According to Sex.			According to Class.			According to Age.		
		Ratio per mille.			Ratio per mille.			Ratio per mille.
Males	...	25·4	Christians	...	7·5	Under 1 year	...	180·3
Females	...	24·1	Hindus	...	27·2	1 and under 5 years	...	38·0
Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	...	105	Mahomedans	...	19·1	5 " 10 "	...	21·7
			Other Classes	...	76·8	10 " 15 "	...	15·1
						15 " 20 "	...	18·0
						20 " 30 "	...	12·8
						30 " 40 "	...	11·9
						40 " 50 "	...	15·0
						50 " 60 "	...	27·5
						60 years and upwards	...	62·6

Detailed information regarding the vital statistics of the twenty-seven principal towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, *Dip. Publ. Health, Camb.*,

The 8th September 1890.

Sanitary Commissioner for Bengal.

Statement showing the Results of the Registration of Births and Deaths in the principal Municipalities in Bengal during the week ending with Saturday, the 23rd August 1890.

		1	2	3	4	5	6	7	8	9	10	11	12											
DISTRICTS.	NAMES OF MUNICIPALITIES.	POPULATION.			BIRTHS.			MORTALITY ACCORDING TO—																
		Males.	Females.	Total.	NUMBER OF—		Ratio per 1,000 of Population per annum.	Ratio of male births to every 100 female births.	DEATHS FROM—						DISEASE.						Sex.			
					Males.	Females.			Total.	Males.	Females.	Total.	Cholera.	Small-pox.	Fever.	Bowel-complaints.	Injury.	Other diseases.	All causes.	Ratio of deaths per 1,000 of population in the previous week.	Males.	Females.	Ratio per 1,000 of Population per annum.	Ratio of male deaths to every 100 female deaths.
Burdwan	Burdwan	18,043	14,017	32,060	7	4	22	107	61	26.6	175	1	1	2	2	22	1	1	10.7	61	26.6	237	50	
Midnapore	Midnapore	10,977	10,693	21,670	4	7	23	77	108	18.6	71	1	1	4	4	25	4	6	17.0	108	18.6	219	112	
Hughli	Hughli and Chinnab.	11,956	12,829	24,785	4	5	9	64	83	24.9	80	1	1	5	4	19	5	3	21.3	83	24.9	164	140	
Serampore	Serampore	12,539	12,857	25,396	5	4	7	59	76	15.7	75	1	1	10	9	25	5	3	23.4	76	15.7	69.3	63	
	Utterpara	2,446	2,464	4,910	1	3	4	94	25.8	37.7	23	1	1	1	1	8	94	1	37.7	25.8	37.7	...	No female death.	
Howrah	Howrah	53,143	27,669	80,812	21	17	38	130	97	21.2	123	4	1	11	10	31	4	1	19.6	97	21.2	249	148	
Bali	Bali	7,536	6,979	14,515	3	3	6	105	105	21.1	100	4	1	...	...	8	4	1	24.6	105	21.1	234	35
Kishinagar	Kishinagar	12,363	14,816	27,179	3	7	10	87	132	18.9	63	1	1	3	4	8	1	1	11.4	132	18.9	234	35	
	Ranaghat	4,026	4,653	8,679	1	1	2	60	60	12.0	160	4	1	...	...	5	4	1	24.6	60	12.0	234	35
Santipore	Santipore	12,796	12,979	25,775	5	3	8	88	62	14.0	166	1	1	1	1	15	1	1	18.4	62	14.0	234	35	
Jessore	Jessore	4,830	4,608	9,438	1	1	2	61	61	12.2	100	1	1	...	...	5	1	1	18.4	61	12.2	234	35
Rampore Beach	Rampore Beach	10,766	9,028	19,794	7	6	13	184	184	34.2	116	1	1	1	1	10	1	1	34.2	184	34.2	234	35	
Darjiling	Darjiling	4,570	4,439	9,009	7	5	12	91	37.0	86.9	160	1	1	...	...	5	1	1	37.0	37.0	86.9	234	35
Dacca	Dacca	42,782	37,379	80,161	12	6	18	71	38	10.4	220	6	1	15	14	28	6	1	38	38	10.4	234	35	
Karainagar	Karainagar	7,645	4,806	12,451	4	...	4	16.6	...	16.6	...	4	1	1	4	6	1	1	16.6	...	16.6	234	35	
Chittagong	Chittagong	13,340	5,799	19,139	3	1	4	70	23	9.4	340	3	1	1	3	7	1	1	23	23	9.4	234	35	
Coximilab	Coximilab	8,183	5,833	14,016	3	3	6	11.6	77	19.3	150	...	...	1	6	2	...	...	19.3	77	19.3	234	35
Patus City	Patus City	78,763	61,476	140,239	24	23	47	78	75	12.3	194	5	1	12	12	28	5	1	75	75	12.3	234	35	
Gya	Gya	53,299	37,831	91,130	21	23	44	143	171	21.4	84	19	1	31	31	57	19	1	171	171	21.4	234	35	
Arrah	Arrah	30,960	22,503	53,463	20	13	33	239	173	47.9	183	3	1	2	2	10	3	1	173	173	47.9	234	35	
Monterpore	Monterpore	53,064	19,953	73,017	6	9	15	73	109	18.9	64	4	1	6	6	21	4	1	109	109	18.9	234	35	
Durban	Durban	53,174	32,323	85,497	18	11	29	104	87	19.9	118	3	1	3	3	19	3	1	87	87	19.9	234	35	
Chupra	Chupra	26,116	24,864	50,980	10	8	18	101	80	18.1	125	4	1	9	9	26	4	1	80	80	18.1	234	35	
Bhagulpore	Bhagulpore	29,640	27,813	57,453	14	13	27	136	113	24.4	107	7	1	7	7	24	7	1	113	113	24.4	234	35	
Monahy	Monahy	26,164	29,306	55,470	20	21	41	181	129	37.1	96	10	1	11	10	28	10	1	129	129	37.1	234	35	
Purneah	Purneah	8,463	6,853	15,316	...	...	...	...	...	...	...	6	1	1	1	7	...	...	...	...	...	234	35
Poori	Poori	13,947	11,537	25,484	4	3	7	84	43	19.6	300	2	1	9	9	20	2	1	43	43	19.6	234	35	
Total		660,266	510,284	1,170,550	221	221	442	108	96	30.7	109	55	8	74	74	206	55	8	96	96	30.7	237	103	

DISTRICTS.		NAMES OF MUNICIPALITIES.		Class.										Age.																	
				DEATHS AMONG—					RATIO PER 1,000 OF POPULATION PER ANNUM.					DEATHS.							RATIO PER 1,000 OF POPULATION PER ANNUM.										
				Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Christians.	Hindus.	Mahomedans.	Buddhists.	Other classes.	Under 1 year.	1 and under 5 years.	5 and under 10 years.	10 and under 15 years.	15 and under 20 years.	20 and under 25 years.	25 and under 30 years.	30 and under 35 years.	35 and under 40 years.	40 and under 45 years.	45 and under 50 years.	50 and under 55 years.	55 and under 60 years.	60 years and upwards.				
Burdwan	Burdwan	10	1				23.6	3.1					1		2	3		1	4			23.3			13.1	22.6		21.2	140.4		
Midnapore	Midnapore	13	2				20.1	14.4			2	3			1	3	1	1	2	2	140.0	60.3			16.3	31.2	9.4	14.0	50.4	50.8	
Hughli	Hughli and Chinsurah	12					24.7				3	1	1	1	1	1		1	3		194.3	23.4	13.0	21.0	20.7	6.4		12.5	60.0		
Serampore	Serampore	20	2				41.2	27.1			3	4	2	1	1	3	2		5	4	219.7	115.2	41.4	23.4	23.8	30.0	20.9		133.6	149.3	
	Utterpara	3					19.5									1	1									45.2	40.0				
Howrah	Howrah	23	7		1		17.6	17.7		215.8	5	4	3	2	2	2	1	3	6	3	126.0	37.5	24.3	15.6	14.2	4.6	2.7	13.3	56.9	41.6	
	Bali	7	1				27.1	39.7				1	2			1	1			3		53.1	97.6			15.5	10.6			213.1	
Mudden	Krishnagar	6	2				16.7	12.6			2				1	1		2	1	1	200.7				23.3	10.3		31.9	24.7	30.1	
	Ranaghat	4	1				23.4	36.1			1	1		1				1		1	251.2	63.4		50.9				51.3		91	
Jessore	Santipore	12	3				30.1	17.4				1	3	2		3	1		1	4		17.9	41.3	35.9		31.6	12.0		22.6	108.9	
	Jessore	5	4				37.6	34.4			2	1		1		1	1	2		1	536.1	105.3		78.2		25.8	34.0	99.0		113.5	
Rajshahye	Rampore Beaulah	6	4				31.5	21.3					2			1	2	1	2	2						12.5	20.9	21.2	83.8	108.0	
Darjiling	Darjiling	5					56.6				1	2			1	1					425.8	161.7				31.3	23.0				
Dacca	Dacca	1	24	13		100.5	31.0	17.2			5	7	2		3	3	9	3		6	137.0	68.4	10.3		21.4	10.3	40.1	18.6		56.0	
	Narainganj	2	4				10.4	33.8			2	1				1	1		1		372.8	45.6				19.3	24.3		66.5		
Chittagong	Chittagong	1	6				9.0	20.4				1	1	3				1		1		26.4	20.8	60.8				23.0		65.3	
Tipperah	Comillah	3	4				26.2	35.1			3		1		1				1	1	225.3				41.3				64.9	76.7	
Patna	Patna City	50	8				24.0	10.2			9	4	10	4	3	7	6	10	3	7	103.6	14.3	30.9	14.4	14.0	12.6	19.4	27.6	11.0	26.4	
Gya	Gya	31	16				70.2	51.7			21	17	3	8	2	6	5	4	6	21	610.1	130.1	37.3	61.3	19.9	28.3	30.4	21.3	47.3	212.2	
Shahabad	Arrah	8	2				13.4	5.4			5	1			1				1	2	201.9	11.7			16.3				16.8	36.1	
Mossurpore	Mossurpore	11	10				19.0	41.7			5	3	5	1	1		3		1	2	272.3	38.6	37.3	13.1	17.2		22.4		16.0	42.7	
Durbhanga	Durbhanga	15	4				16.1	11.3			3	2	2	2	2	3		3		2	100.2	13.7	12.3	18.7	25.9	11.7		31.0		32.6	
Saran	Chupra	15	1				19.7	4.4			5	3	3		1	1			2	1	194.3	30.2	36.2		15.0	5.6			25.2	15.3	
Bhagulpore	Bhagulpore	11	3				14.4	9.1			3	3			1	2	1	1	2	2	130.7	19.2			12.4	9.5	5.6	5.3	24.4	25.0	
Monghyr	Monghyr	20	6				23.3	20.7			5	9		1	1	2	1	1	1	4	170.1	75.2		9.1	13.8	10.1	5.3	5.3	13.1	36.0	
Purneah	Purneah	6	1				34.0	9.2			2			1		1	1	1	1		367.6			43.6		15.3	18.2	26.0	35.6		
Poori	Poori	19	1				40.3	34.6			1		3		5	4		1	1	5	171.6				139.9	30.4		15.6	23.3	144.0	
TOTAL		1	326	108		1	7.3	27.2	19.1		70.6	55	68	45	20	28	52	40	36	41	79	160.3	38.0	21.7	15.1	18.0	12.3	11.0	15.0	27.5	62.5

PUBLIC WORKS DEPARTMENT,—BENGAL.

IRRIGATION BRANCH.

Statement showing heights over mean sea-level and low-water in the Rivers Ganges, Bhagiruthee, Jellinghee, and Brahmapootra for the month of June 1890.

Statement showing heights of the River Ganges at various stations from the 1st to the 30th of the month of August 1880.																						RIVER BHAGIRUTHER.		RIVER JELLINGHEE.		RIVER BRAHMAPOOTRA.	
DATE.	Miles.	RIVER GANGES.																		Berhampore.		Serupgunge.		Gowhatti.			
		Mirzapur.		Benares.		Buxar.		Dinapur.		Monghyr.		Sahebgunge.		Rampore Benaulah.		Goalundo.											
		88	134	46	90	177	87	207	110	301	94	471	80	501	120												
		From Allahabad ...	From Allahabad ...	From Mirzapur ...	From Benares ...	From Benares ...	From Buxar ...	From Benares ...	From Dinapur ...	From Benares ...	From Monghyr ...	From Benares ...	From Sahebgunge ...	From Benares ...	From Rampore Benaulah ...												
Height over zero.		Height over mean sea-level.		Height over zero.		Height over mean sea-level.		Height over zero.		Height over mean sea-level.		Height over zero.		Height over mean sea-level.		Height over zero.		Height over mean sea-level.		Height over zero.		Height over mean sea-level.					
1st	...	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.	Below zero.				
2nd	...	0'25	20'97	2'27	194'53	0'09	168'97	7'20	141'43	2'09	99'77	2'05	65'92	0'75	41'25	8'17	14'11	1'57	35'41	3'35	7'55	4'40	155'16				
3rd	...	0'25	20'97	2'31	194'49	0'06	168'97	7'20	141'43	2'00	99'35	1'92	66'09	0'58	41'42	8'42	14'36	1'75	35'40	3'69	7'48	7'00	155'16				
4th	...	0'25	20'97	2'46	194'44	0'06	168'97	7'25	141'48	1'83	100'02	1'75	66'25	0'46	41'51	8'07	14'01	1'83	35'37	4'17	8'47	11'40	160'16				
5th	...	0'17	20'05	2'40	194'45	0'06	168'97	7'35	141'59	1'79	100'08	1'83	69'17	0'33	41'07	8'17	15'11	1'83	35'57	4'00	8'30	13'00	161'76				
6th	...	0'17	20'05	2'40	194'34	0'06	168'97	7'40	141'61	1'75	100'10	1'87	69'33	0'25	41'75	8'07	15'01	1'83	35'57	4'17	8'47	14'70	163'46				
7th	...	0'17	20'05	2'50	194'30	0'06	168'97	7'55	141'79	1'67	101'18	1'43	68'58	0'31	41'79	7'50	16'14	1'43	35'57	4'59	8'40	16'00	164'76				
8th	...	0'17	20'05	2'54	194'26	0'17	168'98	7'78	141'99	1'50	100'33	1'17	68'43	0'18	41'87	8'50	17'44	1'88	35'63	6'78	9'08	17'00	165'76				
9th	...	0'17	20'06	2'58	194'23	0'17	168'98	8'00	142'23	1'48	100'43	0'42	67'58	0'00	43'00	9'53	18'77	1'75	36'49	4'48	8'72	18'00	166'76				
10th	...	0'08	20'14	2'51	194'17	0'17	168'98	8'30	142'33	1'33	100'52	1'09	68'01	0'48	42'43	11'05	20'05	1'67	35'41	4'17	8'47	19'00	168'96				
11th	...	0'08	20'14	2'39	194'13	0'17	168'98	8'25	142'43	1'34	101'47	0'00	70'00	1'06	43'05	12'17	21'11	1'67	35'61	2'54	7'08	20'70	169'40				
12th	...	0'08	20'14	2'39	194'13	0'17	168'98	8'50	143'73	1'25	101'60	1'30	69'50	0'08	45'08	13'00	21'34	1'63	36'57	3'67	7'97	21'41	170'16				
13th	...	Above zero.	Above zero.	2'00	194'90	0'08	168'97	8'91	143'13	1'17	100'69	1'00	69'00	0'25	45'25	13'42	22'36	1'63	36'37	3'63	8'18	22'00	170'76				
14th	...	0'25	20'47	1'67	193'13	0'08	168'97	8'90	143'13	1'08	100'77	1'50	69'30	0'25	45'75	13'58	22'77	1'63	36'32	4'08	8'38	22'00	171'26				
15th	...	0'25	20'47	1'50	196'30	0'08	168'97	9'30	145'53	0'17	102'03	1'33	70'33	0'48	45'43	14'48	23'36	1'67	37'41	4'17	8'47	23'00	171'66				
16th	...	0'67	20'69	1'41	195'39	0'50	169'35	9'55	145'74	0'42	102'27	0'00	71'00	4'00	46'00	14'50	23'44	1'92	37'08	4'54	8'84	23'00	173'30				
17th	...	0'67	20'69	1'41	195'39	0'36	169'35	9'70	145'93	0'07	102'32	0'75	71'75	4'54	46'54	14'87	23'61	1'92	37'01	4'75	9'05	24'00	173'16				
18th	...	0'75	20'97	1'33	195'47	0'36	169'55	10'00	146'33	0'02	102'77	0'30	71'50	5'00	47'00	15'00	23'84	1'92	36'24	4'83	9'13	24'20	173'96				
19th	...	0'75	20'97	1'25	195'53	0'36	169'55	10'30	146'43	1'08	102'93	0'00	71'00	5'00	47'00	15'00	23'84	1'92	36'24	4'87	8'97	24'30	173'96				
20th	...	0'75	20'97	1'16	195'54	0'07	169'74	10'40	146'43	1'38	103'16	0'00	71'40	4'83	46'93	15'17	23'84	1'92	36'41	5'50	9'00	25'20	174'96				
21st	...	0'98	20'14	1'00	195'50	0'75	169'80	10'50	146'73	1'67	103'22	0'30	71'80	4'79	46'79	15'43	24'36	1'92	36'40	6'00	10'30	25'00	174'50				
22nd	...	7'00	213'25	0'00	199'80	3'67	172'78	10'50	146'73	2'08	103'93	4'50	75'50	4'71	46'71	15'75	24'09	6'00	39'74	6'00	10'30	22'40	171'16				
23rd	...	10'33	217'05	8'00	204'80	0'55	175'70	10'60	149'83	2'48	104'27	5'33	73'53	5'17	47'17	16'09	24'86	6'55	39'80	6'17	10'47	21'70	170'40				
24th	...	9'09	215'21	7'75	204'53	8'07	177'79	10'30	147'53	2'75	104'60	5'58	73'53	5'53	47'43	15'92	24'80	6'50	40'24	7'23	11'22	21'80	170'50				
25th	...	7'50	213'72	7'00	204'90	9'58	179'43	14'00	149'13	6'08	106'08	6'00	74'00	6'17	48'17	16'09	24'86	6'67	40'41	12'00	16'30	21'70	170'40				
26th	...	7'00	213'22	6'00	202'89	9'78	178'90	16'00	150'23	9'67	111'58	7'30	75'50	6'83	48'93	15'7	24'61	8'48	42'16	15'42	19'72	22'00	170'76				
27th	...	16'40	222'72	10'00	204'90	9'53	175'38	16'00	150'23	10'75	112'00	10'00	78'00	9'33	50'33	15'67	25'19	18'48	47'16	19'42	23'72	22'00	171'36				
28th	...	25'58	231'96	31'00	217'80	12'25	151'30	16'50	150'73	11'67	115'58	10'33	78'53	9'58	51'58	16'25	25'17	14'33	48'07	19'09	23'38	23'05	171'81				
29th	...	32'38	234'80	30'00	229'90	11'33	190'39	18'80	157'03	11'75	113'60	11'00	79'00	10'79	52'79	16'25	25'17	14'33	48'07	19'09	23'38	23'05	171'81				
30th	...	32'38	234'80	31'00	227'90	14'33	193'35	23'75	157'93	14'50	116'35	11'42	79'43	11'75	51'75	17'38	24'37	13'20	48'00	19'25	23'55	23'70	172'40				
31st	...	32'38	234'80	31'00	227'90	14'33	193'35	23'75	157'93	14'50	116'35	11'42	79'43	11'75	51'75	17'38	24'37	13'20	48'00	19'25	23'55	23'70	172'40				
32nd	...	32'38	234'80	31'00	227'90	14'33	193'35	23'75	157'93	14'50	116'35	11'42	79'43	11'75	51'75	17'38	24'37	13'20	48'00	19'25	23'55	23'70	172'40				

CALCUTTA,

The 8th September 1890.

G. A. G. SHAW,

Under-Secretary to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT,—BENGAL.
IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1890-91.

Areas leased for irrigation up to the end of June 1890.

CIRCLE.	District.	Canal.	Estimated full discharge.	Average discharge in month.	Discharge utilised.	Approximate area of land irrigated during the year up to the end of the month.	Approximate area of land under irrigation up to the same date last year.	DETAILS OF AREAS LEASED.								Rainfall, 1890-91.		Rainfall, 1889-90.		REMARKS.				
								Five years, all crops.	Five years, kharif.	Annual leases.					GRAND TOTAL.	During month.	Up to end of month.	During month.	Up to end of month.					
										Kharif.	Rabi.	Sauwansa.	Bhadol.	Hot-weather.							Total.			
ORISSA	Cuttack	Taldunda, 1st reach	C. ft. 1,342	C. ft. 124	C. ft. 74	Acres. 110	Acres. 23	Acres. 10,011	Acres. 10,011	Acres. 10,011	Acres. 10,011	Acres. 10,011	Acres. 10,011	Acres. 10,011	Acres. 10,011	Acres. 10,011	Inches. 9'38	Inches. 11'38	Inches. 8'57	Inches. 10'00				
		Ditto, 2nd "	566	74														14'78	16'18	11'25	14'75			
		Machgung	776						22,264							22,264		7'26	9'71	15'13	15'90			
		Kendrapara	1,067	345'92	73'97	110	23	48,450								48,450		7'26	9'71	15'13	15'90			
		Gobri	372'32	40'28	27'08	21	2	2,267								2,267		3'72	7'42	12'19	18'09			
		Do. extension	642	61'68	46'93			2,147								2,147	No gauge fixed.							
		Palamoundi	835	107'30	42'63			10,309								10,309								
		High Level, Range I	608	216'27	65'59	1,833	630	25,023			70	5			75	25,098	11'36	16'30	5'40	13'55				
		Ditto, ditto II	737'18	483'37	310'52	335	950	2,592			20				30	2,412								
		Ditto, ditto III	757'16	205'02	205'02	441	118	34,400				127				137	34,537	8'29	12'53	10'35	14'10			
		Total				2,289	1,995	157,143		90	132			222	157,405									
		Total of the corresponding period of last year						134,482		3,055	183			3,209	157,691									
SOUTH-WEST. B.N.	Midnapore	Midnapore	1,411	82		6,103		64,460							64,460	17'73	23'35	9'08	12'31	16 Days discharging.				
		Panchitoorah	523	1				3,384							3,384	13'51	20'02	13'04	16'52	2 Days discharging.				
		Tidal reaches, Range I-II						396							396									
		Total					6,103		68,239						68,239									
		Total of the corresponding period of last year							63,263						63,263									
SOUTH	Shahabad	Western Main	4,342	974	27	8,230	7,738	11,560				215		300	624	12,084	8'19	9'03	9'37	10'15				
		Buxar	1,276	217	90	37,039	27,239	50,853				1,000		2,300	3,300	54,263								
		Arrah	2,000	506	323	90,129	84,169	90,112			169			5,600	7,928	96,040								
		Eastern Main				8	13	1,132						8	1,140									
		Patna	1,466	344	260	477	313	86,976				390		390	87,366	11'57						14'04	9'31	11'54
		Total				126,869	119,521	180,673		169		3,962		8,200	12,240	202,913								
		Total of the corresponding period of last year						157,749		1,439		4,232	8	11,109	16,783	174,557								
		Grand Total				126,173	127,619	180,673	225,422	169	90	3,964		8,209	12,462	426,537								
		Grand Total of the corresponding period of last year						157,769	157,745	1,439	3,056	4,336	8	11,109	19,997	365,511								

* The total 62,963 entered in the return for May last was incorrect, and should have been 62,463 as now entered.

CALCUTTA,
The 8th September 1890.

G. A. G. SHAW,
Under-Secy. to the Govt. of Bengal.

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.

NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of June 1890.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.			PRIVATE.		REMARKS.
		Quantity—Tons.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Tons.	Rupess.	
467	1. Grain ...	590	5,739.5	6,329.5	6,329.5	3,57,092	
2	2. Cotton ...	.....	10	10	10	1,500	
106	3. Oilseeds ...	18	1,616.25	1,634.25	1,634.25	2,00,945	
158	4. Salt ...	1,677	.....	1,677	1,677.0	4,77,981	
...	5. Piece-goods ...	.....	.....	.....	.....	.....
11	6. Metal ..	21.18	18	21.36	21.36	19,475	
58	7. Building materials	292	446	738	738	9,730	
929	8. Miscellaneous ...	2,302	4,614	6,916	6,916	8,45,130	
21	9. Fuel ...	169	85	254	254	3,294	
Rafts 52	10. Timber ...	825 c. ft.	32,848 c. ft.	33,673 c. ft.	33,673 c. ft.	36,712	
" 8	11. Bamboos ...	143 "	1,600 "	1,743 "	1,743 "	268	
1,752 & 60 rafts.	12. Total ...	{ 5,069.18 & 968 c. ft.	{ 12,510.93 & 34,448 c. ft.	{ 17,580.11 & 35,416 c. ft.	{ 17,580.11 & 35,416 c. ft.	{ 19,52,127	
1,313 & 36 rafts.	13. Total of same month last year	{ 4,631 & 1,153 c. ft.	{ 9,384 & 14,266 c. ft.	{ 14,015 & 15,413 c. ft.	{ 14,015 & 15,413 c. ft.	{ 15,15,667	

	Up.	Down.	Total.		Rs. A. P.
14. Total number of boats plying cargo No.	576	1,176	1,752	Total tollage of month— 24 + 25 + 26 ...	9,849 15 0
14a. Empty boats and steamers No.	645	117	762	Total tollage of same month last year ...	8,255 5 9
15. Total number of boats plying passenger No.	816	858	1,674	<i>Memorandum of Tollage.</i>	
15a. Ditto empty boats "	39	22	61		
16. Total registered tonnage, cargo Tons	10,071	26,291.5	42,362.5	1. Balance not recovered on the 1st of the month ...	277 8 6
17. Total registered tonnage, passenger Tons	297	300	597	2. Tollage per month ...	9,849 15 6
18. Ton-mileage	.....	.....	.....	3. Total ...	10,127 8 0
19. Estimated value of cargo Rs.	6,78,561	12,36,586	19,15,147	4. Amount paid into treasury during the month ...	9,621 15 6
20. Number of passengers No.	790	1,125	1,915	5. Balance due at the end of the month ...	505 8 6
21. Rafts, bamboos O. ft.	143	1,600	1,743		
22. Do., bullocks "	825	32,848	33,673		
23. Estimated value of rafts Rs.	1,249	35,731	36,980		
24. Tollage on boats "	3,343-6-0	6,219-14-6	9,563-4-6		
25. Compounded tollage on boats Rs.	.....	.....	.....
26. Tollage on rafts "	6-6-0	280-5-0	286-11-0		
27. Total tollage on boats per ton-mile "	.....	.....	.....
28. Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	0-12-11		

* Boats in these rivers do not pay per mile.

Abstract for the month of June 1890 as compared with the corresponding month of the previous year.

	1890-91.		1889-90.	
	During the month.	To end of the month.	During the month.	To end of the month.
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Tollage ...	9,849 15 6	22,791 7 6	8,285 5 9	20,775 14 3

CALCUTTA,
The 9th September 1890.G. A. G. SHAW, *Under-Secy to the Govt. of Bengal.*

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

CALCUTTA AND EASTERN CANALS.

Statement showing Quantities of Goods carried during the month of July 1890.

Number of Rafts or Rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
215	1. Grain ...	3,639	3,639	3,52,375	3,639	3,52,375	For details, see next page.
2	2. Cotton ...	16	.....	16	9,000	16	9,000
85	3. Oilseeds ...	1,155	25	1,180	1,46,100	1,180	1,46,100	
252	4. Salt ...	482	3,693	4,180	4,09,675	4,180	4,09,675	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
3	6. Metal ...	5	.....	5	3,750	5	3,750
111	7. Building materials ...	3,706	90	3,796	59,719	3,796	59,719	
1,152	8. Miscellaneous* ...	4,793	765	5,558	6,94,717	5,558	6,94,717	
359	9. Fuel ...	7,756	941	8,697	68,149	8,697	68,149	
.....	10. Timber ...	.....	.....	.....	.....	.....	.....
Rafts 2	11. Bamboos ...	800 c. ft.	.....	800 c. ft.	133	800 c. ft.	133
2,179 Rafts 2	12. Total ...	21,552 & 800 c. ft.	5,519	27,071 & 800 c. ft.	17,43,618	27,071 & 800 c. ft.	17,43,618	
2,489	13. Total of same month last year.	24,794	6,194	30,988	23,25,742	30,988	23,25,742	

	Up.	Down.	Total.		Rs. A. P.
Total number of boats plying cargo No.	1,875	304	2,179	Total tollage of month— 24+25+26 ...	18,076 7 0
a. Empty ...	1,627	273	1,900		
Total number of boats plying passenger No.	476	4	480	Total tollage of same month last year ...	19,993 5 0
Total registered tonnage, cargo Tons	75,305	13,179	88,484	<i>Memorandum of Tollage.</i>	
Total registered tonnage, passenger Tons	845	7	852		
Ton-mileage ...	600,300	131,790	732,090		Rs. A. P.
Estimated value of cargo Rs.	12,65,411	4,78,074	17,43,485	1. Balance not recovered on the 1st of the month ...	911 13 0
Number of passengers No.	1,830	18	1,848	2. Tollage per month ...	18,076 7 0
Rafts, bamboos C. ft.	800	.....	800		
Do., bullahs ..	.....	.....	.....	3. Total ...	18,988 4 0
Estimated value of rafts Rs.	133	.....	133		
Tollage on boats ..	14,814-0-0	3,230-15-0	18,074-15-0	4. Amount paid into treasury during the month ...	18,287 0 0
Compounded tollage on boats Rs.	.....	.....	.....
Tollage on rafts ..	1-8-0	.....	1-8-0	5. Balance due at the end of the month ...	651 3 6
Total tollage on boats per ton-mile Rs.	.....	.....	0-0-4-74		
Total tollage on rafts per 100 cubic feet Rs.	.....	.....	0-3-0		

ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
CALCUTTA AND EASTERN CANALS.

Number of boats or rafts.	Description.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupees.	Tons.	Rupees.	
44	(a) Jute ...	713	.....	713	79,800	713	79,800	
39	(b) Jaggery ...	405	.....	405	56,695	405	56,695	
7	(c) Sugar ...	29	.....	29	7,290	29	7,290	
4	(d) Tobacco ...	.....	34	34	6,720	34	6,720	
276	(e) Fish ...	71	1	72	20,239	72	20,239	
13	(f) Hides ...	32	.....	32	7,232	32	7,232	
69	(g) Poultry ...	19	.....	19	15,588	19	15,588	
60	(h) Hay and straw ...	428	.....	428	8,998	428	8,998	
36	(j) Oil ...	32	625	657	92,000	657	92,000	
41	(k) Earthenware ...	69	.....	69	968	69	968	
563	(m) Other miscella- neous ...	2,995	105	3,100	3,99,187	3,100	3,99,187	
1,152	Total Miscellaneous...	4,793	765	5,558	6,94,717	5,558	6,94,717	

PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.
SOUTH-WESTERN CIRCLE.

TOLLY'S NULLAH.

Statement showing Quantities of Goods carried during the month of July 1890.

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
1,425	1. Grain ...	5,985	3	5,988	5,28,655	5,988	5,28,655	* For details, see next page.
9	2. Cotton ...	466	.....	466	27,000	466	27,000	
28	3. Oilseeds ...	409	...	409	46,055	409	46,055	
116	4. Salt ...	798	640	1,438	1,40,962	1,438	1,40,962	
.....	5. Piece-goods ...	.....	.....	.....	.....	.....	.....
2	6. Metal ...	.....	14	14	1,600	14	1,600	
618	7. Building materials ...	7,489	...	7,489	26,743	7,489	26,743	
933	8. Miscellaneous* ...	3,813	115	3,928	4,47,059	3,928	4,47,059	
132	9. Fuel ...	1,670	.....	1,670	12,859	1,670	12,859	
1 raft.	10. Timber ...	.....	28 c. ft.	28 c. ft.	70	28 c. ft.	70	
10 rafts.	11. Bamboos ...	416 c. ft.	.....	416 "	52	416 "	52	
3,263 & 11 rafts.	12. Total ...	{ 20,680 & 416 c. ft.	{ 772 & 28 c. ft.	{ 21,402 & 444 c. ft. }	{ 12,31,055	{ 21,402 & 444 c. ft. }	{ 12,31,055	
2,859 & 2 rafts.	13. Total of same month last year ...	{ 14,236 & ...	{ 501 & 2,071 c. ft.	{ 14,737 & 2,071 c. ft. }	{ 8,87,592	{ 14,737 & 2,071 c. ft. }	{ 8,87,592	
		Up.	Down.	Total.			Rs. A. P.	
14.	Total number of boats plying cargo ... No.	3,168	95	3,263	Total tollage of month— 24+25+26 ...		8,630 15 9	
14a.	Empty " "	975	72	1,047				
15.	Total number of boats plying passenger ... No.	285	4	289	Total tollage of same month last year ...		6,846 2 9	
16.	Total registered tonnage, cargo ... Tons	58,429	2,343	60,772	Memorandum of Tollage.			
17.	Total registered tonnage, passenger ... Tons	631	11	642				
18.	Ton-mileage ...	431,889	37,488	469,377	1. Balance not recovered on the 1st of the month ...		286 5 0	
19.	Estimated value of cargo Rs.	11,49,416	81,517	12,30,933	2. Tollage per month ...		8,630 15 9	
20.	Number of passengers No.	1,644	17	1,661	3. Total ...		8,917 4 9	
21.	Rafts, bamboos C. ft.	416	.....	416				
22.	Do., bullahs "	.....	28	28				
23.	Estimated value of rafts Rs.	52	70	122	4. Amount paid into treasury during the month ...		8,613 1 0	
24.	Tollage on boats "	8,041-1-3	582-2-6	8,623-3-9	5. Balance due at the end of the month ...		304 3 9	
25.	Compounded tollage on boats .. Rs.	.....	.....	.....	
26.	Tollage on rafts "	2-8 0	5-4-0	7-12-0				
27.	Total tollage on boats per ton-mile Rs.	.....	.....	0-0-3-52				
28.	Total tollage on rafts per 100 cubic feet ... Rs.	.....	.....	1-11-11				

**ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).
TOLLY'S NULLAH.**

Number of boats or rafts.	DESCRIPTION.	TOTAL GOVERNMENT AND PRIVATE.				PRIVATE.		REMARKS.
		Quantity—Tons.			Value.	Quantity.	Value.	
		Up.	Down.	Total.	Rupces.	Tons.	Rupces.	
9	(a) Jute ...	105	11	116	13,000	116	13,000	
87	(b) Jaggery ...	593	19	612	85,625	612	85,625	
1	(c) Sugar ...	4	.....	4	1,125	4	1,125	
31	(d) Tobacco ...	319	42	361	70,875	361	70,875	
222	(e) Fish ...	25	.....	25	7,192	25	7,192	
.....	(f) Hides ...	.....	.....	.....	.....	.....	.....
2	(g) Poultry ...	1	.....	1	160	1	160	
180	(h) Hay and straw...	439	.....	439	7,219	439	7,219	
47	(j) Oil ...	435	30	465	65,125	465	65,125	
115	(k) Earthenware ...	142	10	152	2,134	152	2,134	
239	(m) Other miscellane- ous.	1,750	3	1,753	1,94,604	1,753	1,94,604	
933	Total Miscellaneous...	3,813	115	3,928	4,47,059	3,928	4,47,059	

**ABSTRACT FOR THE MONTH OF JULY 1890, AS COMPARED WITH THE
CORRESPONDING MONTH OF THE PREVIOUS YEAR.**

	TRAFFIC, 1890-91.				TRAFFIC, 1889-90.			
	During the month.		To end of the month.		During the month.		To end of the month.	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
Calcutta and Eastern Canals ...	18,076	7 0	69,994	7 9	19,993	5 0	79,115	12 6
Tolly's Nullah ...	8,630	15 9	32,318	7 6	6,846	2 9	26,386	13 6
Total ...	26,707	6 9	1,02,312	15 3	26,839	7 9	1,05,502	10 0

Calcutta,
The 8th September 1890.

G. A. G. SHAW,
Under-Secretary to the Govt. of Bengal.

CIRCULAR AND EASTERN CANALS.

*Approximate Return of Traffic for the week ending Saturday, the 6th September 1890,
as compared with the corresponding week of the previous year.*

NATURE OF CARGO.	WEEK ENDING SATURDAY, THE 6TH SEPTEMBER 1890.			WEEK ENDING SATURDAY, THE 7TH SEPTEMBER 1889.		
	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy	378	92,775	1,561	269	64,675	900
Jute	115	34,950	742	19	55,680	864
Firewood	99	56,450	847	124	68,675	998
Other articles	790	1,83,030	2,315	745	1,36,650	1,964
Total	1,342	3,69,205	5,465	1,247	3,23,680	4,746

Eastern Bengal State Railway.

*Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of
June 1890, as compared with the same month of the previous year.*

STAPLES.	1890.		1889.		TOTAL.		Increase.	Decrease.
	Up.	Down.	Up.	Down.	1890.	1889.		
Coal	Tons. 2,801	Tons. 763	Tons. 18,095	Tons. 2,147	Tons. 3,564	Tons. 30,313	Tons.	Tons. 16,678
Cotton, raw	.....	138	7	329	138	336	.....	178
Cotton twist and yarn—								
1.—European								
2.—Indian								
Cotton piece goods—								
1.—European—								
a.—In bales and bundles	1,673	38	2,654	81	1,911	3,635	.....	7
b.—In boxes								
2.—Indian—								
a.—In bales and bundles								
b.—In boxes								
Grains—								
2.—Rice	3,149	4,415	1,301	3,005	6,567	6,506	2,261	.....
5.—Others	706	6,715	507	1,010	7,421	1,023	5,898	.....
Hides and skins—								
1.—Hides of cattle—								
a.—Dressed								
b.—Undressed		361	4	397	361	401	.....	39
2.—Skins of sheep, &c.—								
a.—Dressed								
b.—Undressed								
Jute—								
1.—Raw—								
a.—Screwed		512	.....	3,026	512	3,026	.....	1,314
b.—Unscrowed		3,601	2	3,137	3,600	3,139	461	.....
2.—Gunny-bags and cloth	123	684	326	301	1,007	637	360	.....
Metals—								
1.—Copper, unwrought								
2.—Brass, unwrought								
3.—Iron and copper, wrought								
4.—Iron	791	29	791	101	890	890	.....	2
5.—Tin								
6.—Others								
Oils—								
2.—Kerosine	609	.....	615	31	609	636	.....	267
3.—Others	358	67	247	10	425	247	188	.....
Oil-seeds—								
1.—Linseed								
2.—Rape and mustard								
3.—Til or gingelly								
4.—Niger	95	3,344	136	5,119	3,439	5,255	.....	1,817
5.—Castor								
6.—Poppy								
7.—Others								
Provisions—								
1.—Betel-nuts	99	674	89	162	763	241	522	.....
2.—Others	447	250	349	724	837	1,077	.....	240
Railway plant and rolling-stock	.....	.....	16,237	2,667	26,693	18,824	7,768	.....
Salt	6,379	7	4,777	29	6,377	4,806	1,472	.....
Sugar—								
1.—Unrefined	963	234	292	1,398	1,297	1,664	.....	36
2.—Refined								
Tea—								
1.—Foreign								
2.—Indian	1	1,792	17	1,541	1,763	1,358	405	.....
Wood—								
1.—Timber	77	41	62	69	119	131	.....	12
2.—Firewood	1,560	.....	1,380	.....	1,560	1,380	180	.....
Tobacco	23	2,110	49	2,163	2,130	2,101	.....	29
All other articles of merchandise—								
1.—Unmanufactured	3,397	2,413	3,654	2,625	6,000	6,222	.....	222
2.—Manufactured								
Hay, straw, and wool (C. & S. E. Section)	413	.....	708	.....	413	708	.....	295
Total	22,743	29,947	62,328	26,765	79,371	80,996	10,136	21,599

Comparative statement of the principal commodities carried over the Eastern Bengal State Railway during the month of June 1890.

INCREASES.		Tons.
Rice	...	2,261
The increase was contributed by the Southern and Behar Sections. The Northern Section showed considerable fluctuations during the month.		
Hotel-nuts	...	522
Principally from Bengal Central Division stations carried over the Bengal Central Railway.		
Railway plant, &c.	...	7,768
For repairs and renewals.	...	1,472
Salt	...	...
The principal increase was from Chitpore.		
DECREASES.		
Coal	...	16,078
Short outturn from collieries.		
Cotton piece-goods	...	724
Ordinary fluctuations.		
Oil-seeds	...	1,917
Hogoola, Kinsengunge, Chocadanga, Damukola, Jagati, Koochta, and Serajganj show considerable decreases, said to be due to the dullness of the market.		

CALCUTTA, the 2nd September 1890.

F. P. QUINLAN,
Examiner of Accounts.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 1,525½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week	102,826	1,89,567 1 0	19,56,509 10	4,35,109 7 0	10,945 16 11	6,40,722 7 11	65,084	72,776	1,37,860
Or per mile of railway	...	124 4 3	...	285 3 7	10 8 4	420 0 2	...	...	...
For previous 8 weeks of half-year	1,700,503	1,76,790 8 0	1,41,01,121 10	31,13,940 3 0	1,41,616 5 11	50,13,346 0 11	501,170	592,877	1,094,047
Total for 9 weeks	1,902,329	19,47,357 9 0	1,60,57,630 20	35,49,088 10 0	1,52,582 5 10	56,54,118 8 10	566,704	665,653	1,232,357
COMPARISON.									
Total for corresponding week of previous year	219,403	2,21,443 2 6	21,39,747 20	4,15,822 14 0	14,804 0 7	6,02,170 1 0	65,540	72,383	1,37,923
Per mile of railway corresponding week of previous year	...	145 8 0	...	272 0 3	9 11 11	427 8 2	...	...	...
Total to corresponding date of previous year	2,146,409	20,74,348 0 10	1,91,46,730 0	40,03,370 14 1	1,49,186 5 8	62,34,699 4 7	693,905	742,294	1,436,199

* The decrease in coaching traffic is partly due to a larger number of 3rd class government passengers booked from the N.W. Ry. and Ghazipur to Howrah in the corresponding period of 1889, and partly to a lesser traffic at Howrah, Allahabad, Cawnpore, and Delhi and some minor stations.

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI. Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 31st AUGUST 1889.			RECEIPTS FOR WEEK ENDING 30th AUGUST 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 31st AUGUST 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 30th AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.			
	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.
1,024	6,02,170	428	1,525	6,40,723	426	1,525	1,82,55,050	544	1,525	1,87,73,049	500	...	14,84,000

PATNA-GYA STATE RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 57½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	7,547	3,856 7 0	21,311 0	1,301 2 0	45 0 0	5,202 9 0	1,080	548	1,596
Or per mile of railway ...	132	67 6 9	372 30	24 5 1	0 13 7	92 8 8	.....	.....	.....
For previous 3 weeks of half-year ...	70,401	35,053 5 0	2,65,360 10	16,509 1 0	321 0 0	54,941 6 0	7,662	4,790	12,452
Total for 9 weeks ...	83,048	41,009 12 0	2,86,671 10	17,800 3 0	366 0 0	60,235 15 0	8,712	5,336	14,048
COMPARISON.									
Total for corresponding week of previous year ...	9,136½	4,573 6 7	50,432 20	2,255 4 0	27 11 3	6,856 5 10	1,234	973	2,196
Per mile of railway corresponding week of previous year ...	160	79 15 3	881 30	39 6 10	0 7 9	119 13 10	.....	.....	.....
Total to corresponding date of previous year ...	95,855	40,300 2 0	4,97,860 30	22,380 1 0	368 6 0	72,116 10 3	9,308	9,643	16,356

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 31st AUGUST 1889.			RECEIPTS FOR WEEK ENDING 30th AUGUST 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 31st AUGUST 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 30th AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
57½	6,856	120	57½	5,203	98	57½	1,86,111	148	57½	1,86,960	149	869	.....

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 30th August 1890, on 22½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. s.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	15,349	4,045 0 0	4,336 30	606 0 0	0 7 0	4,657 7 0	925	43	968
Or per mile of railway ...	.....	181 12 9	.....	27 3 9	0 4 8	200 5 2	.....	.....	.....
For previous 3 weeks of half-year ...	139,817	33,950 10 0	35,207 0	1,212 13 0	56 7 0	35,258 14 0	7,074	384	7,458
Total for 9 weeks ...	154,166	38,034 10 0	39,543 30	1,818 13 0	62 14 0	39,016 2 0	8,000	428	8,428
COMPARISON.									
Total for corresponding week of previous year ...	15,143	3,554 13 0	6,494 20	230 2 0	3 0 3	3,787 15 3	925	43	968
Per mile of railway corresponding week of previous year ...	.....	159 13 3	.....	10 5 0	0 2 2	170 5 11	.....	.....	.....
Total to corresponding date of previous year ...	160,196½	39,110 3 1	44,338 10	1,543 15 0	40 5 3	39,694 0 4	8,341	327	8,668

Approximate Statement of gross receipts of the Tarkeessur Branch Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPTS FOR WEEK ENDING 31st AUGUST 1889.			RECEIPTS FOR WEEK ENDING 30th AUGUST 1890.			TOTAL RECEIPTS FROM 1st APRIL 1889 TO 31st AUGUST 1889.			TOTAL RECEIPTS FROM 1st APRIL 1890 TO 30th AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
22½	3,786	170	22½	4,657	209	22½	1,22,333	250	22½	1,24,761	255	2,428	.....

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BEHAR SECTIONS.)

Approximate Return of Traffic for week ended 23rd August 1890, on 767 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steamer-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	120,070	80,070 0 0	6,40,470 0	1,76,280 0 0	11,190 0 0	2,80,410 0 0	22,864	36,586	59,450
Or per mile of railway ...	157	66 0 0	843 0	227 0 0	*1 0 0	364 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	1,016,766	4,01,660 0 0	34,18,180 0	7,80,980 0 0	93,900 0 0	12,84,080 0 0	183,406	316,896	370,004
Total for 8 weeks ...	1,136,836	4,82,650 0 0	40,58,650 0	9,60,830 0 0	1,07,000 0 0	16,20,470 0 0	176,290	353,484	429,444
COMPARISON.									
Total for corresponding week of previous year ...	123,383	84,169 0 0	7,23,296 0	1,90,707 0 0	12,968 0 0	2,57,829 0 0	22,005	32,905	54,910
Per mile of railway corresponding period of previous year ...	160	78 0 0	968 0	255 0 0	*1 0 0	339 0 0	.....	.....	.....
Total to corresponding date of previous year ...	1,080,989	4,48,667 0 0	43,10,621 0	9,51,804 0 0	1,07,400 0 0	15,01,531 0 0	180,047	318,580	398,627

* Excluding steamer earnings.

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

RECEIPTS FOR WEEK ENDING 6TH AUGUST 1890.			RECEIPTS FOR WEEK ENDING 23RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 23RD AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
767	Rs. 2,67,888	348	767	Rs. 2,36,410	308	761	Rs. 36,34,973	247	761	Rs. 28,39,080	246	Rs. 2,02,112	.....

* Audited up to week ending 21st June 1890.

BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 125 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	28,690	8,090 0 0	46,620 0	4,200 0 0	60 0 0	12,350 0 0	2,610	2,664	5,274
Or per mile of railway ...	191	64 0 0	378 0	34 0 0	.....	98 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	180,553	62,170 0 0	2,54,380 0	17,110 0 0	1,400 0 0	80,680 0 0	14,330	12,820	27,150
Total for 8 weeks ...	213,442	70,230 0 0	3,01,000 0	21,310 0 0	1,460 0 0	98,000 0 0	27,660	12,890	40,550
COMPARISON.									
Total for corresponding week of previous year ...	24,366	7,728 0 0	83,865 0	8,138 0 0	48 0 0	15,914 0 0	2,538	3,066	5,604
Per mile of railway corresponding period of previous year ...	196	62 0 0	671 0	65 0 0	.....	127 0 0	.....	.....	.....
Total to corresponding date of previous year ...	221,283	70,978 0 0	3,82,177 0	20,714 0 0	1,547 0 0	1,03,234 0 0	27,670	18,418	46,088

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPTS FOR WEEK ENDING 24TH AUGUST 1890.			RECEIPTS FOR WEEK ENDING 23RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 24TH AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 23RD AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked.	Rs.	Rs.
125	Rs. 15,914	127	125	Rs. 12,350	98	125	Rs. 2,83,061	108	125	Rs. 2,59,010	90	Rs. 2,071	.....

* Audited up to week ending 21st June 1890.

DACCA STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 86 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	23,000	6,610 0 0	22,240 0	1,650 0 0	50 0 0	6,210 0 0	2,414	090	3,104
Per mile of railway ...	150	54 0 0	142 0	18 0 0	.....	72 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	99,030	31,930 0 0	84,370 0	7,710 0 0	970 0 0	40,610 0 0	16,243	4,632	20,874
Total for 8 weeks ...	112,730	38,540 0 0	96,610 0	9,260 0 0	1,020 0 0	46,820 0 0	18,656	5,322	23,978
COMPARISON.									
Total for corresponding week of previous year ...	23,333	6,767 0 0	10,916 0	1,286 0 0	55 0 0	5,106 0 0	2,520	697	3,256
Per mile of railway corresponding period of previous year ...	280	79 0 0	137 0	15 0 0	.....	59 0 0	.....	.....	.....
Total to corresponding date of previous year ...	114,516	34,373 0 0	1,08,244 0	6,447 0 0	1,264 0 0	42,334 0 0	19,633	5,746	25,379

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

RECEIPTS FOR WEEK ENDING 24TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 23RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 24TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 23RD AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
86	8,108	94	86	6,210	72	86	1,10,043	65	86	*1,28,468	71	11,690	.....

* Audited up to week ending 21st June 1890.

NALHATI STATE RAILWAY.

Approximate Return of Traffic for week ended 23rd August 1890, on 27½ miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated).	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
		Rs. A. P.	Mds. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
Total traffic for the week ...	2,800	290 0 0	1,840 0	80 0 0	10 0 0	1,080 0 0	880	170	750
Per mile of railway ...	103	88 0 0	69 0	3 0 0	1 0 0	40 0 0	.....	.....	.....
For previous 7 weeks of half-year ...	23,030	8,240 0 0	73,790 0	4,080 0 0	80 0 0	12,400 0 0	3,776	3,313	6,091
Total for 8 weeks ...	25,830	9,230 0 0	77,670 0	4,160 0 0	90 0 0	13,480 0 0	4,556	2,483	6,941
COMPARISON.									
Total for corresponding week of previous year ...	2,380	306 0 0	15,421 0	974 0 0	293 0 0	3,153 0 0	886	340	926
Per mile of railway corresponding period of previous year ...	92	32 0 0	566 0	36 0 0	11 0 0	79 0 0	.....	.....	.....
Total to corresponding date of previous year ...	24,141	9,016 0 0	68,331 0	4,510 0 0	467 0 0	14,015 0 0	4,539	2,700	7,247

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

RECEIPTS FOR WEEK ENDING 24TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 23RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 24TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 23RD AUGUST 1890.			Total increase in 1890.	Total decrease in 1890.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Rs.	Rs.
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
27½	2,163	79	27½	1,040	40	27½	33,694	69	27½	*30,468	60	.....	100

* Audited up to week ending 21st June 1890.

TIRHOOT AND BENGAL AND NORTH-WESTERN RAILWAYS.

(TIRHOOT SECTION.)

Approximate Return of Traffic for the week ending 23rd August 1890, on 315 miles open.

	COACHING TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.		Other earnings (estimated), including steam-boat.	Total earnings.	TRAFFIC TRAIN-MILES RUN.		
	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.			Coaching.	Merchandise.	Total.
Total traffic for the week on 315 miles open ...	42,407	13,824	1,53,256	16,886	3,290	34,000	6,015	5,947	11,962
Or per mile of railway ...	135	44	487	54	10	108	...	...	...
For previous 6 weeks of half-year ...	252,010	84,206	8,84,063	87,932	14,540	1,00,707	40,039	37,424	77,463
Total for 7 weeks ...	294,417	98,030	10,37,349	1,04,868	17,830	2,20,707	46,054	43,351	89,405
COMPARISON.									
Total for corresponding week of previous year on 273 miles open ...	36,933	11,843	2,64,927	21,806	3,072	37,410	4,589	2,434	13,943
Per mile of corresponding week of previous year ...	135	43	964	80	1	124	...	...	...
Total to corresponding date of previous year ...	296,143	99,443	17,14,412	1,45,510	29,108	2,74,155	38,085	46,061	87,046

* Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot Section.

RECEIPTS FOR WEEK ENDING 24TH AUGUST 1889.			RECEIPTS FOR WEEK ENDING 23RD AUGUST 1890.			TOTAL RECEIPTS FROM 1ST APRIL 1889 TO 24TH AUGUST 1889.			TOTAL RECEIPTS FROM 1ST APRIL 1890 TO 23RD AUGUST 1890.			Total increase in 1890-91.	Total decrease in 1890-91.
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.		
	Rs.	Rs.		Rs.	Rs.		Rs.	Rs.		Rs.	Rs.	Rs.	Rs.
273	37,410	137	315	34,000	108	273	7,92,476	145	315	8,20,546	143	23,070	...

DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Approximate earnings for week ending 16th August 1890	...	...	12,966
Corresponding period of 1889	...	...	12,042
Increase	...	...	924
Receipts per mile for week ending 16th August 1890	...	...	Rs. 4 P. 254 3 0
Corresponding period of 1889	...	...	236 2 0
Increase	...	...	18 1 0
Receipts from 1st July to 16th August 1890	...	...	50,839
Corresponding period of 1889	...	...	58,481
Decrease	...	...	7,592



SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, SEPTEMBER 17, 1890.

OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUPPLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RESOLUTION ON THE ANNUAL GENERAL ADMINISTRATION REPORT OF THE BHAGULPORE DIVISION FOR THE YEAR 1889-90.

GENERAL DEPARTMENT—MISCELLANEOUS.

Calcutta, the 16th September, 1890.

RESOLUTION.

READ—

The Annual General Administration Report of the Bhagulpore Division for the year 1889-90.

The divisional report is written by Mr. Quinn, who took charge of the office of Commissioner only during the last month of the year, and all the district reports, except that of Maldah, have been submitted by Collectors who were without personal experience of the facts recorded. This consideration affects specially the account given of the annual tours, which can be of much interest only when it is made by the officers who travelled. The arrangements of the Commissioner were disturbed by illness, more or less severe, and the same cause prevented the Collectors of Monghyr, Bhagulpore, and Purneah from devoting to inspection duty the full period prescribed. In Purneah the tour was insufficient owing to changes of officers during the year. The Lieutenant-Governor notices with satisfaction that the tours of the Sub-divisional Officers were in every instance complete.

2. The outturn of the harvest of 1888-89 was seriously deficient, being on the divisional average 10½ annas for rice and 10 annas for wheat, while in the Bhagulpore district Crops, prices, and condition of the people.

the rice harvest was 8 annas only. In the natural sequence prices were high during 1889-90, common rice averaging $15\frac{1}{4}$ seers a rupee against $17\frac{1}{2}$ seers in the previous year. In the Soopol sub-division of Bhagulpore there was a tract classified as distressed where relief operations were undertaken in accordance with the Famine Code. Mr. Wace, Collector of Bhagulpore, observes—

"In those tracts which suffered from the drought of 1888, there was great cause for anxiety in the early part of the year in respect of both the small cultivators and the labourers. The latter were helped by the relief works which were started at various points, but things never got bad enough to drive those classes which are ordinarily above labour on to the works. All through April and May these classes were much pinched in the north-east of Soopol, the north-east and centre of Banka, and in the south-west of the Sudder sub-division. The village mahajun's heart remained as hard as the ground till the rains fell, and ryots seemed to think that Government would repeat the lavish operations of 1874. Advances were, however, kept for the tracts specified above. In Naradigur our work was well supplemented by the Maharaja of Durbhunga. As usual the mahajun came forward when the rain fell at last, and an increase in the registration returns under mortgages and sales shows that he was used more freely than usual, and I fear the year closes with the small cultivators more indebted than ever. They have, however, benefited by getting better prices for the surplus of the harvest just over than they could have expected considering its abundance. The Managers of the Durbhunga Raj and of the Srinagore estate each reports that the advances they made are being rapidly paid up."

The crop of 1889-90 was distinctly better, averaging $14\frac{1}{2}$ annas for rice, $11\frac{1}{2}$ annas for wheat; but prices have been even higher, perhaps because stocks had been depleted, and the harvest, though tolerable, was not sufficient to replenish them. In Maldah wages of unskilled labour are reported to have risen during the last two years with the price of food, being 3 to 4 annas a day against 2 to 3 annas in 1887-88, and a similar tendency is observed in the district of Purneah. In Monghyr, Bhagulpore, and the Sonthal Pergunnahs no change has been observed in the former rate of two annas a day, as to which the Commissioner, moreover, observes that he does not believe the ordinary agricultural labourers are so highly paid in the interior of the district. Mr. Quinn states that "it may safely be said that the general condition of the people affords no ground for despondency, and that they were distinctly better off at the close than at the beginning of the year. The picture of the Sonthal Pergunnahs, as drawn by the Deputy Commissioner, is decidedly cheerful." It is probable that the ryots have derived advantage from the high price of rice during the year, their harvests not being deficient, though some portion of the surplus must have gone to replenish stocks and pay debts contracted during the bad season of 1888-89. The labourers north of the Ganges have received full compensation for the enhancement in the cost of living by a rise in wages, and the fact is one of the most assuring observed in recent years. South of the Ganges, in so far as they are paid in money, the working classes must have suffered.

3. In the districts south of the Ganges there was a considerable increase in the number of registered deaths, which were 63,308 in Monghyr against 53,213 in the previous year, 52,214 in Bhagulpore against 48,239, and 28,530 in the Sonthal Pergunnahs against 21,140. The cause of the variation is not explained, but it seems that the year 1888-89 had been unusually healthy, and the high price of provisions must have affected unfavourably the condition of the poorest class in 1889-90. In the districts north of the Ganges, where there is less poverty, the death-rate did not increase. Of Purneah the Commissioner writes—

"The chief feature as regards the health of this district was the great epidemic of cholera which, spreading from the Karagola fair in February 1889, in which month only 125 deaths were recorded, caused 6,198 deaths in March and reached its maximum in the appalling total of 10,232 deaths in April, the first month of the official year under report. The epidemic came to an end in May, in which month 625 deaths were recorded. Two special Civil Hospital Assistants were deputed to the Arrareah sub-division, and cholera medicines were given away freely by the District Board. The total number of deaths from cholera registered during the official year was 12,690 against 883 in the previous year. Deaths from fever amounted to 36,231 against 40,609 in the preceding year. There was practically no small-pox, a result attributed by the Civil Surgeon to the efficiency of the Vaccination Department. The total number of deaths registered in the district during the year was 49,418 against 41,661 in the preceding year. Speaking generally, the health of the district was, except for the cholera epidemic, better than usual. The heavy rain and floods appear to have lessened the tendency to malarious fever."

The Lieutenant Governor notices with pleasure the statement that vaccination has been fairly maintained throughout the Division, and there was no serious outbreak of small-pox, though in some districts the deaths from this cause were more numerous than in the preceding year.

4. The statistics of manufactures appended to the report are valuable as a beginning, but cannot be relied upon in every case. It is, for instance, impossible to believe that the value of indigo produced in Bhagulpore, returned at over eleven lakhs in 1888-89, had declined to little more than half a lakh in 1889-90. In regard to trade, the increased importation of food and the diminished importation of piece-goods are explained by the failure in the crops of the previous year. There was a marked falling off in the export of piece-goods to Nepal, attributed to the existence of an accumulated stock in that country. The Commissioner observes—

"The opening of the part of the Purneah Section of the Assam-Bihar State Railway from Kurba to Forbesgunge during the year has considerably changed the trade routes of the western and northern parts of the Arrareah and Sudder sub-divisions. Produce is now brought from Nepal to Forbesgunge, and thence taken to the Manihari Ghât, where it is shipped and carried westwards by river to Revilunge. The Kusi boat trade is being abandoned in favour of the railway."

In Purneah the Collector mentions as a new feature in the trade of the district that in Kishengunge the people are beginning to form joint stock companies, and are gradually superseding the Bengali merchants who used to monopolise the trade at that place.

5. The Commissioner reports favourably of the working of the magistracy, and in particular of the Honorary Magistrates and Benches. Progress was made in securing the regular payment of chowkidars and their attendance at the police-stations. On the other hand the police are said to have done well only in the district of Maldah, and there was an increase in crime, the total number of cognizable cases being 15,864 against 14,507 in the previous year; of non-cognizable complaints 11,395 against 10,905. This is but partly explained by the large number of prosecutions under Municipal and special Acts.

6. The collections on the large Government estate of Damin-i-Koh in the Sonthal Pergunnahs were satisfactory, as with a rent roll of Rs. 1,69,497 there were no remissions and a balance uncollected of only Rs. 832. But in the division generally the arrears at the end of the year were large, amounting to 6.2 per cent. of the land revenue demand, and it is remarkable that even on permanently-settled estates the outstandings were considerable, being 5 per cent of the demand. More than a tenth of the estates defaulted during the year, and 152 were actually sold. In the face of these results, it is not understood how the Commissioner comes to consider that the present system of working the Sale Laws in Bhagulpore Division, which apparently consists in treating the day of auction as the last day for payment, has secured the revenue without hardship to individuals. It is not, however, desirable to make any great change by executive orders at present, as the law on the subject will probably be recast at no distant date. The report does not state what progress has been made in the large settlements of private estates by public authority which have been in progress during the year in Bhagulpore, Monghyr, Purneah, and the Sonthal Pergunnahs, though they constituted the most novel and not least important of the proceedings taken by Government in connexion with agrarian matters.

7. The Lieutenant-Governor notices with satisfaction an increase in the number of schools from 4,785 to 5,293, and of pupils from 88,473 to 93,947. This extends to institutions of all classes except those entered as "middle vernacular." It is specially observed that primary education has been a distinct advance both among boys and girls, and that candidates from the Division did well at the Entrance examination of the Calcutta University.

8. The Commissioner reports that local bodies appear to have on the whole worked fairly well during the year, though the record is not entirely satisfactory. The Lieutenant-Governor was very favourably impressed by the readiness with which the Bhagulpore District Board co-operated in the work of relieving distress.

9. The rate at which this contribution is levied was changed during the year in all districts, being lowered in two and raised in three. *Zemindary dak.* Zemindars have recently objected to such annual alterations as making the incidence of the change uncertain, and changes should be avoided when this can be conveniently arranged. The Lieutenant-Governor would indeed be glad to meet a wish, once expressed by the head of the Postal Department, to commute this fluctuating impost for a fixed demand, settled in perpetuity, and a proposal for commutation has also been put forward on the part of the zemindars, though on pecuniary terms, which are not admissible.

10. Favourable mention is made of the Maharajah of Durbhanga, whose estates extend into Bhagulpore, of Maharajah Taruk Nath Ghose, and of Mr. Grant, in the Sonthal Pergunnahs, for liberal management of their property.

11. The thanks of the Lieutenant-Governor are given to Mr. Stevens for efficient management of the division during the greater portion of the year. His successor, Mr. Quinn, has also given indications of administrative ability. The report bears witness to the many excellent qualities of the late Mr. Coxhead, whose premature death Sir Stuart Bayley has had to deplore since the close of the year. Mr. Wace's excellent work in connexion with the scarcity in his district attracted the special notice of the Lieutenant-Governor, and Mr. W. C. Macpherson is stated to have thrown himself with great effect into the task of improving the administration of his district. Among junior members of the Civil Service, Mr. Luson is noticed for the thoroughness with which he dealt with important business connected with Wards' estates, Mr. Monahan and Mr. Streatfeild for general efficiency. Several Deputy Collectors have been favourably mentioned, among whom may be noted Baboo Soorjo Coomar Sen.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN,

Secretary to the Govt. of Bengal.

RESOLUTION ON THE ANNUAL REPORT OF THE GOVERNMENT CINCHONA PLANTATION AND CINCHONA FACTORY IN BENGAL FOR THE YEAR 1889-90.

FINANCIAL DEPARTMENT—MISCELLANEOUS.

Dated Calcutta, the 7th September 1890.

RESOLUTION.

READ—

The Annual Report of the Government Cinchona Plantation and Cinchona Factory in Bengal for the year 1889-90.

At the close of the year the plantation consisted of 4,682,401 trees of various ages and of a nursery stock containing 264,000 seedlings. The crop collected amounted to 304,705 pounds against 373,100 pounds in 1888-89. It was composed of 140,310 pounds of red or *succirubra* bark, 131,055 of Ledger's *calisaya*, 5,310 of *calisaya verde* and *morada*, and 28,030 of hybrid bark.

2. The outturn of the factory, which is regulated by the demand, was 1,833 pounds of sulphate of quinine and 6,578 pounds of febrifuge. The entire quantity of the quinine and a greater portion of the febrifuge were manufactured by the new fusel oil process which has now entirely taken the place of the old acid and alkali method of manufacture. The quinine is of excellent appearance, and in purity compares favourably with most of the brands of European

manufacture. The issues from the factory rose from 7,489 pounds in 1888-89 to 7,680 pounds in 1889-90, as will be seen from the following table:—

		1889-90.		1888-89.	
		lb	oz.	lb	oz.
To Medical Depôt, Calcutta	...	2,197	0	2,140	0
Ditto, Bombay	...	2,224	0	1,250	0
Ditto, Madras	...	.....		1,300	0
To Inspector-General of Civil Hospitals, Bengal	...	352	8	425	0
To Inspector-General of Jails	...	149	9	121	12
Sold to Government officers and to the public	...	2,756	0	2,251	4
Given as samples	...	1	0	1	4
Total	...	7,680	1	7,489	4

3. The revenue derived from the sale of sulphate of quinine, cinchona and crystalline febrifuge, cinchona bark and other products of the plantation amounted to Rs. 1,13,693-12-6 in 1889-90, against Rs. 1,29,160-3 in the previous year, as shown below—

		1889-90.			1888-89.		
		Rs.	A.	P.	Rs.	A.	P.
By sale of febrifuge, sulphate of quinine and bark to the public		43,112	13	0	37,706	0	0
By credit from the Medical Depôts	...	63,374	11	6	82,322	3	0
By credit from the Inspector-General of Civil Hospitals, Bengal	...	5,056	2	0	7,059	0	0
By credit from the Inspector-General of Jails, Bengal	...	2,150	2	0	2,073	0	0
Total	...	1,13,693	12	6	1,29,160	3	0

The net profit on the working of the cinchona estate amounted to Rs. 18,967-9-10 in 1889-90 against Rs. 27,844 in 1888-89, and is not unsatisfactory when the depressed condition of the cinchona industry is taken into consideration. It is understood that the exportation from Ceylon has at last begun to fall off, and in this case quinine will probably soon rise in price, and the demand for cinchona febrifuge will also increase.

4. Dr. King gives a favourable report of the good work done by the subordinate officers of the plantation and factory, and the Lieutenant-Governor is glad to again acknowledge the efficient services of Dr. King and of Mr. Gamie in their administration of the Department.

ORDER.—Ordered that a copy of this Resolution and of the Report referred to be forwarded to the Government of India in the Home Department, to the Political (Medical) Department of this Government, to the Superintendent of the Government Cinchona Plantation, to the Government of Madras, and to the Inspector-General of Civil Hospitals, Bengal, for information.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Govt. of Bengal.

ANNUAL REPORT ON THE GOVERNMENT CINCHONA PLANTATION AND
FACTORY IN BENGAL FOR THE YEAR 1889-90.

No. 36C, dated Royal Botanic Garden, Seebpore, near Calcutta, the 14th July 1890.

From—BRIGADE-SURGEON GEORGE KING, M.B., Superintendent, Royal Botanic
Garden, Calcutta, and Cinchona Cultivation in Bengal, and Officiating
Government Quinologist,

To—The Secretary to the Government of Bengal, Financial Department.

I HAVE the honour to submit herewith the annual report of the Cinchona
Plantations and Factory for the year 1889-90.*Twenty-eighth Annual Report of the Government Cinchona Plantation and Factory
in British Sikkim for the year 1889-90, by BRIGADE-SURGEON G. KING, M.B.,
LL.D., F.R.S., C.I.E., Superintendent of the Royal Botanic Garden, Calcutta,
and of Cinchona Cultivation in Bengal, and Officiating Government Quinologist.*

1. The weather during the year presented no unusual features. The plantation suffered neither from excessive rain nor from drought, nor was any great mischief done by hail or landslips; and the growth of the plants both in the nurseries and in the open was on the whole favourable.

2. *Changes in the Plantation.*—The total number of trees uprooted for their bark during the year, or which died from natural causes, was 373,690. Of this total, 270,000 were red barks, the rest being either yellow barks or hybrids. Many of the red barks were small stunted trees which yielded very little bark. On the other hand, 245,860 new trees—exclusively yellow barks and hybrids—were planted. The renewals were thus less numerous than the losses, a circumstance which is due to the enormous destruction of nursery stock by the violent hailstorm which passed over the plantation in March 1889, and which was alluded to in my last annual report. A reference to the table which forms Appendix C of this report shows that at the end of the year under review the plantation consisted of 4,682,401 trees of various ages, and of a nursery stock amounting to 264,000 seedlings. Of the trees in the open, there are now only 1,612,000 red barks, and amongst the nursery stock there are none of this sort. the intention being gradually to convert the plantation into one exclusively of quinine-yielding species.

3. *The year's crop.*—The crop collected during the year amounted to 304,705 pounds. This total is composed of 140,310 pounds of red or succirubra bark, 131,055 of Ledger's calisaya, 5,310 of calisaya verde and morada, and 28,030 of hybrid bark. The proportion contributed by the plantations is as follows: the old plantation (Rungbee and Mungpoo) yielded 222,025 pounds, Sittong 50,180 pounds, and the young plantation at Rungjung in the Bhootan Hills 32,500 pounds. With the exception of 310 pounds sold and issued on indents to jails, the whole crop was as usual made over to the factory.

4. *Expenditure on the plantation for the year.*—The total budget allotment for the plantation was originally Rs. 85,795; but as the year advanced it was found necessary to apply for a transfer of Rs. 10,000 from the plantation to the factory budget. On the grant, thus reduced to Rs. 75,795, there was a saving of Rs. 6,598-6, the net expenditure for the year having amounted to only Rs. 69,196-10. The details of the expenditure are as follows:—

	Rs.	A.	P.
European establishment (including all salaries except that of Dr. King, Superintendent of the Botanic Garden, Calcutta), cooly labour and office establishment	62,363	8	8
Keep of animals for plantations	900	0	0
Contingencies, &c., including service postage stamps	4,635	5	0
Travelling allowance	458	12	0
Stores from England	839	0	4
Total	69,196	10	0

Against this expenditure there is to be put the crop of 304,705 pounds of dry bark, the net cost of each pound of which was therefore 3 annas 7-602 pies.

5. *Factory.*—The original budget allotment for the factory was Rs. 32,515, which sum was subsequently increased by a transfer from the plantation budget to Rs. 42,515. The expenditure, however, exceeded this amount by Rs. 571-13. A large part of the factory expenditure was on machinery for working the new

fusel oil process, and this ought really to be debited to capital. But the factory has no capital account, all charges connected with it having hitherto been debited to current working expenses. And I have not thought it necessary on the present occasion to deviate from this practice, especially as such heavy expenditure on plant is not likely to be necessary for some time. To the cash expenditure of Rs. 43,086-13 there has to be added the cost of the bark used and of stores received from England. These items are as follows:—

Factory expenditure on chemicals, oil, labour and machinery	Rs.	A.	P.
Stores from England	38,845	6	11
Cost of bark used, 137,898 pounds of crop of 1888-89 at 3 annas 1-333 pies per pound ...	4,241	6	1
100,022 pounds of crop of 1889-90 at 3 annas 7-602 pies per pound	26,813	4	3
	22,714	5	9
Total	92,614	7	0

The products manufactured for this sum consisted of 1,833½ pounds of sulphate of quinine at a net cost of Rs. 11-14-3-026 per pound, and of 6,578 pounds of febrifuge at a net cost of Rs. 10-12-3-026 per pound. In short the quinine cost Rs. 11½ and the febrifuge Rs. 10½ per pound.

6. *The fusel oil process of manufacture.*—The whole of the quinine and the greater part of the febrifuge were manufactured by the new fusel oil process; and, as the arrangements for working this process were quite completed during the year, the old acid and alkali method of manufacture has now been definitively abandoned. An additional year's experience of the fusel oil process confirms my previously expressed opinion of its complete success. The quinine turned out by it is of excellent appearance and great purity, in the latter respect comparing favourably with most of the brands of the drug of European manufacture.

7. *Sales of febrifuge and quinine during the year.*—The total issues for the year were 6,393½ pounds of febrifuge, 1,252 pounds of quinine, and 34 pounds of crystalline febrifuge. These were distributed as follows:—

Details of the distribution of Cinchona Febrifuge, Crystalline Febrifuge, and Sulphate of Quinine during the financial year 1889-90.

To Medical Depôt, Calcutta—	lbs.	oz.
Cinchona febrifuge	1,997	0
Sulphate of quinine	200	0
To Medical Depôt, Bombay—		
Cinchona febrifuge	1,750	0
Sulphate of quinine	474	0
To Inspector-General of Civil Hospitals, Bengal (for district medical officers of Bengal)—		
Cinchona febrifuge	333	12
Crystalline „	18	12
To Inspector-General of Jails, Bengal (for jails and lock-ups in Bengal)—		
Cinchona febrifuge	141	12
Crystalline „	7	12
Sulphate of quinine	0	1
Sold to Government officers and to the general public—		
Cinchona febrifuge	2,170	4
Crystalline „	7	8
Sold to Government officers—		
Sulphate of quinine	578	4
Given as samples—		
Cinchona febrifuge	1	0
Total	7,680	1

This is better by 191 pounds than the issues of the previous year, which amounted to only 7,489½ pounds.

8. *Stock account.*—The bark in stock at the end of the year amounted to 426,275 pounds. Part of this bark (221,892 pounds) is of the crop of 1888-89, which cost 3 annas 1-333 pies per pound, and the remainder (204,383 pounds) is of the crop of 1889-90, which cost 3 annas 7-602 pies per pound. To save trouble in future calculations, I have taken the whole at its average cost, viz.

3 annas 4·338 pies per pound. The manufactured products have been taken at their actual cost, and the chemicals and other stores rather below their estimated value. As compared with that of 1888-89, the stock of last year stands thus:—

Stock on 31st March 1889.			Stock on 31st March 1890.		
	Rs.	A. P.		Rs.	A. P.
Chemicals and stores ...	10,000	0 0	Chemicals and stores ...	3,000	0 0
Cinchona febrifuge, 1,375 pounds, at Rs. 12-10-8·08 per pound ...	17,417	3 10	Cinchona febrifuge, 1,559½ pounds, at Rs. 10-12-8·026 per pound ...	16,786	13 2
Crystalline febrifuge, 54 pounds, at Rs. 16-6-2 per pound ...	884	13 0	Crystalline febrifuge, 20 pounds, at Rs. 16-6-2 per pound ...	327	11 4
Sulphate of quinine, 982 pounds, at Rs. 12-10-8·08 per pound ...	12,439	1 2	Sulphate of quinine, 1,562 pounds 18 ounces, at Rs. 11-14-3·026 per pound ...	18,583	0 6
Bark, 359,780 pounds, at 3 annas 1·338 pies per pound ...	69,958	8 8	Bark, 426,275 pounds, at an average of 3 annas 4·338 pies per pound ...	89,559	6 1
	1,10,699	10 8			
Increase in value ...	17,557	4 4			
Total ...	1,28,256	15 0	Total ...	1,28,256	15 0

There has thus been a considerable increase in the value of the stock. In other words the off-take of our manufacture has not kept pace with our production, nor has it increased in proportion to the reduction in the price of febrifuge from Rs. 16-8 to Rs. 14 and of quinine from Rs. 20 to Rs. 17 per pound. Although this result is to be regretted, it is not to be wondered at, since the price of all cinchona products in the open market still continues very low, and quinine is obtainable in the bazars at an unprecedentedly cheap rate, much of it, however, being of inferior quality.

9. *Financial result of the year's working.*—The figures already given afford the means of forming a balance sheet showing the exact financial result of the year's working. This is as follows:—

DR.			BALANCE SHEET.			CR.		
	Rs.	A. P.		Rs.	A. P.		Rs.	A. P.
To value of stock on 31st March 1889 ...	1,10,699	10 8	By value of stock on 31st March 1890 ...	1,28,256	15 0			
To cash received from the treasury during 1889-90 for expenditure on the plantations, viz. Rungbee, Mungpoo, Sittong, and Kungjung ...	68,957	9 8	By cash receipts from sale of sulphate of quinine, cinchona and crystalline febrifuge and cinchona bark, &c. ...	48,112	13 0			
To stores from England for plantations ...	839	0 4	By credit from Medical Depôts for cinchona febrifuge, viz.—					
To cash received from treasury during 1889-90 for expenditure on factory ...	38,845	6 11	Calcutta ...	27,958	0 0			
To stores from England for factory ...	4,241	6 1	Bombay ...	24,500	0 0			
Profit on the year's working, viz.—				52,458	0 0			
Cash ...	1,410	6 0	By credit from Medical Depôts for sulphate of quinine, viz.—					
Increase of stock of quinine, febrifuge and bark ...	17,557	3 10	Calcutta ...	3,103	2 0			
			Bombay ...	7,813	9 6			
	18,967	9 10		10,916	11 6			
			By credit from Inspector-General of Civil Hospitals, Bengal, for cinchona and crystalline febrifuge supplied to medical officers of Bengal, viz.—					
			For cinchona febrifuge ...	4,680	2 0			
			For crystalline febrifuge ...	376	0 0			
				5,056	2 0			
			By credit from Inspector-General of Jails, Bengal, for cinchona and crystalline febrifuge and sulphate of quinine supplied to jails and lock-ups in Bengal, viz.—					
			For cinchona febrifuge ...	1,986	10 0			
			For crystalline febrifuge ...	157	0 0			
			For sulphate of quinine ...	1	3 0			
				2,145	2 0			
			By credit from Inspector-General of Jails, Bengal, for cinchona bark supplied to the medical officer of the Alipore Jail Hospital ...					
							5	0 0
Total ...	2,41,950	11 6	Total ...	2,41,950	11 6			

This shows a balance of profit of Rs. 18,967-9-10, which, in the present depressed condition of the cinchona industry generally, may, I trust, be accepted as satisfactory. This profit, as will be observed, is composed largely of increase in the amount of the stock of quinine, febrifuge, and bark in hand at the end of the year, as compared with the value of the stock at its commencement. It would have been more satisfactory had the cash realizations been greater, but in the present depressed condition of the industry it is a matter for congratulation when a cinchona estate is worked without actual loss. As was explained in last year's annual report, the extraordinary fall in the price of quinine during the past few years has been due to excessive exportation of cinchona bark from Ceylon. Statistics, however, show that this exportation is at last beginning to fall off. Before very long it is therefore probable that quinine will rise in price and that the demand for cinchona febrifuge will again increase. It is of course only from the narrow point of view of a cinchona grower that an increase in the price of so useful a medicine can be considered as desirable. From the point of view of Government, it would be a misfortune, since it would increase to the people the price of the best medicine for fever.

10. The crop of bark for the current year will as usual be taken with reference to the requirements of the factory.

11. The sum of Rs. 2,377-9 received for grazing and land rent was paid into the Darjeeling cutchery, no credit being taken for it in the above accounts.

12. The fuel plantation was thinned for the first time this year, and a large quantity of poles, more or less useful for building as well as for fuel, was taken out. The growth of this plantation continues to be most satisfactory.

13. Mr. J. A. Gammie, the Deputy Superintendent of the plantation and factory, was absent on privilege leave for three months; but during the rest of the year he was in executive charge at Mungpoo. His services require no recommendation from me. Mr. R. Pantling, the senior assistant, went on furlough towards the end of the year, and Mr. G. Gammie was appointed to officiate for him. Messrs. Pantling, Parkes, G. Gammie and Hartless have all worked well; as also have the head writer, Baboo Gopal Chandra Datta, and the second clerk, Baboo Davendra Nath Basu.

**RESOLUTION ON THE REPORT OF THE BOARD OF REVENUE ON
THE ADMINISTRATION OF THE SALT DEPARTMENT
FOR THE YEAR 1889-90.**

FINANCIAL DEPARTMENT—SALT.

Calcutta, the 9th September 1890.

RESOLUTION.

READ—

The report of the Board of Revenue on the administration of the Salt Department for the year 1889-90.

The following statement shows the receipts and charges of the Department since 1884-85 :—

HEADS.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	1889-90.	Increase in 1889-90 compared with 1888-89.	Decrease in 1889-90 compared with 1888-89.
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Imperial—</i>								
Import duty on salt	1,81,90,460	1,80,30,071	1,94,85,100	1,85,30,930	2,27,28,686	2,28,83,826	...	1,14,899
Excise ditto	10,11,999	9,62,137	4,71,318	3,82,854	3,22,087	1,90,005	...	1,25,482
Total	2,02,02,459	1,89,92,208	1,99,56,418	1,89,13,804	2,30,50,773	2,27,80,431	...	2,70,342
<i>Provincial—</i>								
Rent of warehouses	85,945	60,102	68,445	45,735	83,008	90,100	36,102	...
Miscellaneous	39,311	35,289	33,076	32,182	24,107	34,403	266	...
Total	1,24,656	1,01,475	1,02,120	78,203	88,105	1,24,603	36,308	...
Total Receipts	2,03,27,015	1,90,99,683	2,00,58,538	1,89,92,012	2,31,39,068	2,29,04,994	...	2,33,074
CHARGES.								
<i>Imperial—</i>								
Salaries, establishments, and contingencies.	5,324	6,253	...	...	...	...	...	...
Compensation paid under convention with the French Government.	20,600	20,000	20,000	20,600	20,600	20,000	...	...
Salt preventive establishment in Orissa and Naraingunge.	13,100	12,368	217	...	...	...	...	...
Refunds of customs duty on salt	2,11,905	1,85,726	2,05,560	2,02,044	2,26,413	2,36,135	9,732	...
Total	2,50,328	2,24,341	2,25,577	2,22,044	2,46,413	2,56,135	9,722	...
<i>Provincial—</i>								
Salaries, establishments, and contingencies.	21,049	18,130	11,005	12,368	21,223	46,251	25,028	...
Refunds other than customs and excise duty.	65	19	...	...	...	...	...	...
Total	21,113	18,149	11,005	12,368	21,223	46,251	25,028	...
Total Charges	2,71,451	2,42,530	2,36,581	2,34,412	2,67,636	3,02,386	34,750	...
Approximate net revenue	2,00,55,564	1,88,57,153	1,98,21,954	1,87,57,600	2,28,71,332	2,26,02,608	...	2,65,724

The results of the year under review, as compared with the previous year, show a decrease of Rs. 2,33,974 in receipts and an increase of Rs. 34,750 in charges. The decrease in the revenue from import duty is attributed to smaller clearances of duty-paying salt, while the manufacture of excise salt in Orissa has not recovered from the change of system under which the administration has been transferred from the Government of Bengal to that of Madras. On the other hand, it is to be remembered that large quantities of Ganjam salt, on which the duty is paid in Madras, are now consumed in Orissa. The increase in the receipts from "Rent of warehouses" is due to increased bonding operations, induced partly by the larger steamer traffic and partly by the reduction of the rate of rent from Rs. 5 to Rs. 3 per 1,000 maunds. The rent was reduced in April 1887, and although in the first instance it was followed by a reduction in receipts, the result in the long run has fully justified the change of policy then introduced. A further help to bonding operations will be afforded by the erection of pontoons in front of the Golahs, and the construction of a shunting line connecting them with the Howrah terminus, recently sanctioned by Government. The increase in charges is due principally to the purchase of Mr. Kilby's patent scales for weighing salt and to larger refunds of customs duty.

2. The total quantity of salt in stock at the commencement of the year was 20,46,288 maunds, comprising 18,99,649 maunds of imported salt and 1,46,639 maunds of excise salt. During the year 1,00,72,857 maunds were imported and 70,293 maunds were manufactured, against 1,04,80,285 and 2,44,512 maunds in the previous year. The falling off in imports was occasioned by smaller importations of Liverpool salt, due to the large stocks in bond, the raising of the price by the Salt Syndicate, and the growing practice of importing salt by the

Suez Canal steamers. There can be no doubt that the action of the Cheshire Salt Syndicate has acted very prejudicially to the Liverpool trade, the exports from the United Kingdom having decreased from 83 lakhs of maunds to 70 lakhs, while there has been a corresponding increase in the trade from Hamburg, amounting to 4,44,000 maunds, from the Arabian and Persian Gulfs amounting to 2,70,000 maunds, and from Aden amounting to 4,44,000 maunds. The large increase in steamer traffic is also a point deserving special consideration. Three years ago the whole of the salt imported came in sailing vessels, but during the past year 27 steamers brought 10,51,557 maunds. Mr. Armstrong, the Collector of Customs, observes that the tendency of this change in the trade is to limit the quantities imported to actual requirements.

3. The decrease in the clearances of salt from shipboard, amounting to 10,24,796 maunds in Calcutta and 1,06,748 maunds in Chittagong, has been counterbalanced by larger clearances from bond, which amounted to 32,64,318 maunds, against 23,85,541 maunds in 1888-89. The consumption in saliferous districts, other than Orissa, showed a decrease of 33,880 maunds as compared with the previous year. The decrease chiefly occurred in Midnapore, and to a lesser extent in the 24-Pergunnahs, and is attributed to the prevailing scarcity. The proportion of seizures to unsuccessful searches (1,476 to 363) was not so good as last year, but the number of seizures shows a very large increase. In the two districts of Midnapore and Backergunge the number of unsuccessful searches exceeded that of seizures. This result is far from satisfactory, and the Lieutenant-Governor is glad to see that it has attracted the careful attention of the Board. The Board have rightly understood that the orders of Government, conveyed in last year's Resolution, that "the police, instead of hunting for trivial cases of illicit manufacture, should rather direct their attention to cases of illicit manufacture for sale," were not at all intended to be read as a permission to make salt for home consumption. Any manufacture of salt without a license duly obtained is illegal. But the policy of Government in regard to salt has always been a liberal one. While, on the one hand, there can be little doubt that the salt revenue is continually defrauded by persons who carry on illicit manufacture with comparative impunity, and it is essential that the police should not relax their exertions to put a stop to systematic manufacture with a view to sale, it must be remembered that the poorer country folk have from time immemorial been in the habit of manufacturing salt, the materials of which lie at their very doors, for their own use, and that the rigorous prosecution of the law in prevention of this practice may very easily create suffering and distress among them, in comparison with which the loss of revenue incurred is but a trifling matter. The question is one of acknowledged difficulty, and much must depend on the discretion and capacity of individual officers in dealing with the penal provisions of the law.

4. The despatches of salt into the interior by the different water routes and railways, as shown in the following table, show a decrease of 2,99,263 maunds:—

YEAR.	Via Balli Khali.	Via Sankrail.	Via Gowanahally.	Via Kidderpore.	Via Ballinghatta.	Total carried by water.	By the East Indian Railway.	By the Eastern Bengal and Calcutta and South-Eastern Railway or via Chittagong.	Via Rutherford Ghat.	Total carried by rail.	GRAND TOTAL.
1888-89	Mds. 10,81,504	Mds. 6,49,576	Mds. 2,79,408	Mds. 3,62,140	Mds. 10,00,906	Mds. 40,33,534	Mds. 35,55,027	Mds. 10,23,393	Mds. 17,025	Mds. 45,90,055	Mds. 86,33,339
1889-90	Mds. 10,30,288	Mds. 5,32,651	Mds. 2,45,352	Mds. 2,97,290	Mds. 17,00,557	Mds. 38,02,038	Mds. 35,42,102	Mds. 9,82,780	Mds. 9,660	Mds. 45,34,602	Mds. 83,36,640
Increase	50,216	1,16,925	34,056	64,850	30,351	2,31,506	13,845	40,613	7,365	2,34,417	2,96,699
Decrease	50,216	1,16,925	34,056	64,850	30,351	2,31,506	13,845	40,613	7,365	2,34,417	2,96,699

There was some discussion during the past year regarding the abolition or modification of the present rowannah system, but it has eventually been decided that no alteration in it is at present necessary.

5. The proposal to extend the Indian Salt Act to the whole of the Province, to which reference was made in last year's Resolution, has been abandoned; but the Act has been extended to the town of Calcutta, as well as the area included in a radius of two miles from its limits, and the control of the saltpetre refineries within this locality has been entrusted to the Commissioner of Northern Indian Salt Revenue.

6. Mr. Kilby's scales for the weighment of salt have now entirely superseded the old scales in the port of Calcutta, and the proposal to introduce them in the Chittagong port has recently been sanctioned by Government. The Lieutenant-Governor is glad again to observe that Mr. Kilby, the Superintendent of the Sulkea Salt Golahs, has continued to discharge his duties in a very satisfactory manner.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,
Secretary to the Government of Bengal.

APPOINTMENT OF A COMMITTEE TO CONSIDER THE QUESTION
OF THE FOUNDATION AND FUTURE MANAGEMENT OF
A NEW LEPER ASYLUM FOR CALCUTTA.

MEDICAL.

Dated the 16th September 1890.

READ—

Bengal Government Resolution, dated the 29th July 1890, regarding the foundation and future management of a new Leper Asylum for Calcutta.

Letter from the President of the District Charitable Society, No. 402, dated the 5th August 1890.

Letter from the Joint Honorary Secretaries to the Prince Albert Victor Permanent Memorial Fund, dated the 12th August 1890.

Letter from the Chairman of the Corporation of Calcutta, No. 3902, dated the 1st September 1890.

In the Resolution cited in the preamble the outline of a scheme for providing Calcutta with a new, enlarged and improved Leper Asylum was indicated, and it was proposed that the whole question should be considered by a Committee consisting of the President and two members of the District Charitable Society, the Chairman and two members of the Corporation of Calcutta, Mr. W. J. Simmons on the part of the Public Health Society, Calcutta, a representative of the Prince Albert Victor Permanent Memorial Fund, and two medical officers to be selected by Government. It was added that the Lieutenant-Governor might appoint additional members should it be found necessary to do so. The Resolution was duly communicated to the Corporation and other bodies named therein, and they were asked to nominate their representatives for appointment to the Committee. Their replies have now been received, and the Lieutenant-Governor is pleased to sanction the formation of a Committee composed of the following gentlemen:—

President :

1. The Hon'ble Justice H. T. Prinsep, President of the District Charitable Society.

Members :

2. Mr. J. Lambert, C.I.E.
3. Mr. H. Lee, C.S., Chairman of the Corporation of Calcutta.
4. Mr. W. J. Simmons, Representative of the Public Health Society, Calcutta.
5. Nawab Abdul Lateef Bahadur, C.I.E., a representative of the District Charitable Society.
6. Babu Issur Chunder Mitter, a representative of the District Charitable Society.
7. Babu Surendra Nath Banerji, a representative of the Corporation of Calcutta.
8. Mr. W. M. Osmond, a representative of the Corporation of Calcutta.
9. Babu Amrita Nath Mitter, Representative of the Subscribers to the Permanent Memorial Fund.
10. Surgeon-Major W. H. Gregg, Sanitary Commissioner for Bengal.
11. Dr. W. J. Simpson, Health Officer for the Town of Calcutta.

Secretary :

Mr. Patrick McGuire, Secretary, District Charitable Society.

The Committee are requested to take into consideration the suggestions contained in the concluding paragraph of the Government Resolution of the 29th July last, and to favour the Lieutenant-Governor with their views in connection with the establishment and management of the proposed institution.

ORDER.—Ordered that a copy of this Resolution be communicated to each of the members of the Committee.

Ordered also that the Resolution be published in the *Calcutta Gazette*.

By order of the Lieutenant-Governor of Bengal,

C. C. STEVENS,
Offg. Chief Secretary to the Govt. of Bengal.

Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 13th September, 1890.

No.	District and date of return.	Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
BENGAL.			
<i>Western Districts.</i>			
Burdwan Div.	1 Burdwan Sept. 13, '90	Nil	Weather—hot and cloudy. Prospects of crops good, but more rain wanted.
	Culna ...	0.92	Prices of common rice:—
	Ranigunge ...	0.83	
			Srs.
	Burdwan ...		15½
	Culna ...		15
	Ranigunge ...		16
			} per rupee.
	2 Bankoora „ 13, '90	0.80	Weather—fine and warm. More rain wanted everywhere. <i>Amun</i> plants on high lands suffering very much for want of moisture, and if it does not rain soon, they will die. <i>Aus</i> ripening. Sugarcane doing well. Common rice selling at 16½ seers per rupee at Bishanpore and 18 seers at Sudder.
	3 Birbhum „ 13, '90	0.28	Break in the rains continues. Sky clear and weather warm. Prospects of crops so far very good. Prices of coarse rice vary from 16 to 19 seers per rupee.
Presidency Div.	4 Midnapur „ 13, '90	0.40	Weather—hot and dry. Rain badly wanted for rice, specially on high lands. Prices of common rice:—
			Srs.
	Sudder ...		16
	Contai ...		16
	Ghatal ...		17
	Tamlook ...		16
			} per rupee.
	5 Hooghly „ 13, '90	Nil	Weather—hot and sultry. Crops will do very well if rain falls soon. Want of rain mentioned in all quarters. Prices of common rice:—
	Jehanabad ...	0.22	Srs.
			13½
Rajshahi Div.	6 24 Pergas Sept. 16, '90	1.55	Weather—seasonable. Floods in the Bussirhat sub-division are subsiding. Harvesting of <i>aus</i> paddy and jute still going on. Transplantation of <i>amun</i> paddy nearly finished. Some injury to standing crops in thana Baduria expected from the floods. Prices stationary. Relief in the shape of rice, dal, &c., is being given to the persons in the northern part of the Bussirhat sub-division, who have suffered from the floods and are destitute of any means.
	7 Nudda „ 13, '90	0.08	Weather—hot. Harvesting of <i>aus</i> almost over. State of <i>amun</i> not affected by flood is good. Rivers falling gradually. Sowing of cold-weather crops commenced.
	Kushtia ...	0.16	
	Chuadanga ...	0.13	
	Ranaghat ...	3.08	
	8 Khoolna „ 13, '90	0.38	Weather—hot with little or no rain. <i>Amun</i> has been destroyed in thana Kalara and in portions of Satkhira and in low lands generally in the north of the district by the flood. Reaping of <i>aus</i> going on. Prospects of <i>amun</i> in the southern thanas very good.
	Bugirhat ...	0.15	
	Satkhira ...	Nil	
	9 Jessore „ 13, '90	0.62	Weather—hot. Flood-water subsiding everywhere. Prospects in Magura and Narail fair. Two officers have been deputed to Bongong and one to Jhenidah to make enquiries about extent of damage to crops.
	Jhenidah ...	0.07	
Rajshahi Div.	10 Moorshedabad „ 13, '90	0.07	A break in the rains. Flood rapidly subsiding. <i>Kalai</i> being sown. Harvesting of <i>aus</i> going on. Some transplantation of <i>haimanti</i> paddy still being made. Rain wanted for <i>amun</i> paddy. Agricultural loans and charity being distributed to those in distress. Some fodder also being supplied to cattle. Coarse rice 13½ seers per rupee.
	11 Dinagpur „ 13, '90	2.08	There have been showers, and the weather has been cooler than in the preceding week. Prospects of crops continue favourable. Outturn of <i>bhadoi</i> and jute may still be estimated at 18 annas. Price of rice unchanged.
	Thakurgaon ...	4.03	
	12 Rajshahi „ 13, '90	0.46	Weather—hot and cloudy. Floods subsiding. Prospects of crops fair in Nowgong and Nattore. Damage about 4 annas in Nowgong. Sudder sub-division has suffered most, but prospects as yet not unfavourable.
	Nattore ...	2.41	
	Nowgong ...	0.79	
	13 Rangpur „ 13, '90	1.21	Rain appears to be breaking up. Heavy thunderstorms alternate with long spells of sunshine. Transplantation of <i>amun</i> rice continues. Cutting and steeping of jute progresses rapidly. Sugarcane looks well, and prospects generally excellent.
	Gaibanda ...	0.73	
	Nitphamari ...	6.0	
	Kurigram ...	8.61	
Rajshahi Div.	14 Bogra „ 13, '90	1.53	Weather—calm. Easterly wind. Outturn of jute reported to be 16 annas. Jute and <i>aus</i> still being reaped. <i>Amun</i> still being transplanted. State of <i>amun</i> and sugarcane good and promising. Common rice selling at 19 seers per rupee.
	Sherpur ...	4.48	
	15 Pabna „ 13, '90	0.14	Weather—hot and cloudy. Floods have damaged <i>aus</i> , jute, and <i>amun</i> crops in the villages in Sujanagore and Khetupara outposts, and in parts of the Serajgunge subdivision considerably. Prices continue stationary.
	16 Darjeeling „ 13, '90	2.74	Weather—rainy with occasional breaks. Transplantation of winter rice in Terai almost at an end. Potatoes, <i>chota morua</i> , and <i>dhutta</i> being harvested. <i>Bara morua</i> , <i>haimanti</i> paddy, and <i>bhadoi</i> progressing well.
	17 Julpigore „ 13, '90	7.70	Weather—days hot and cloudy; nights rainy and cool. Harvesting of jute and <i>aus</i> paddy going on rapidly. Transplantation of <i>haimanti</i> paddy nearly finished. Prospects generally good. Prices stationary.